

# **ABR / SIFLEX**

## **BLASTING ABRASIVES MANUAL**



**Pan Abrasives**

Nozzle Pressure - psi (kpa)								
Nozzle - Φ inch - Φ mm	Air, Power & Abrasive Requirement	50 (345)	60 (414)	70 (483)	80 (552)	90 (621)	100 (689)	125 (862)
#2 - 1/8" - 3.2 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	12 (0.34)	13 (0.37)	15 (0.42)	18 (0.51)	19 (0.54)	21 (0.59)	26 (0.74)
	Power - hp (kw)	1.75 (1.30)	2 (1.49)	2.5 (1.86)	3 (2.24)	3.5 (2.61)	4 (2.98)	6 (4.47)
	Abrasive - lb/hr (kg/hr)	70 (32)	80 (36)	90 (41)	100 (45)	110 (50)	120 (54)	135 (61)
#3 - 3/16" - 4.8 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	25 (0.71)	30 (0.85)	35 (0.99)	40 (1.13)	43 (1.22)	45 (1.27)	60 (1.70)
	Power - hp (kw)	5 (3.73)	8 (5.97)	9 (6.71)	9.5 (7.08)	10 (7.46)	10.5 (7.83)	16 (11.93)
	Abrasive - lb/hr (kg/hr)	150 (68)	170 (77)	200 (91)	215 (98)	240 (109)	260 (118)	320 (145)
#4 - 1/4" - 6.4 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	50 (1.42)	55 (1.56)	60 (1.70)	70 (1.98)	75 (2.12)	80 (2.27)	95 (2.69)
	Power - hp (kw)	10 (7.46)	12 (8.95)	13 (9.69)	16 (11.93)	17 (12.68)	18 (13.42)	25 (18.64)
	Abrasive - lb/hr (kg/hr)	270 (122)	300 (136)	350 (159)	400 (181)	450 (204)	500 (227)	675 (306)
#5 - 5/16" - 8 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	80 (2.27)	90 (2.55)	100 (2.83)	115 (3.26)	125 (3.54)	140 (3.96)	190 (5.38)
	Power - hp (kw)	17 (12.68)	20 (14.91)	25 (18.64)	27 (20.13)	28 (20.88)	30 (22.37)	36 (26.85)
	Abrasive - lb/hr (kg/hr)	470 (213)	530 (240)	600 (272)	675 (306)	750 (340)	825 (374)	1000 (454)
#6 - 3/8" - 9.5 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	110 (3.12)	125 (3.54)	145 (4.11)	160 (4.53)	175 (4.96)	200 (5.66)	275 (7.79)
	Power - hp (kw)	25 (18.64)	29 (21.63)	32 (23.86)	35 (26.10)	40 (29.83)	45 (33.56)	57 (42.50)
	Abrasive - lb/hr (kg/hr)	675 (306)	775 (352)	875 (397)	975 (442)	1060 (481)	1100 (499)	1350 (612)
#7 - 7/16" - 11 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	150 (4.25)	170 (4.81)	200 (5.66)	215 (6.09)	240 (6.80)	255 (7.22)	315 (8.92)
	Power - hp (kw)	35 (26.10)	40 (29.83)	45 (33.56)	50 (37.28)	55 (41.01)	60 (44.74)	70 (52.20)
	Abrasive - lb/hr (kg/hr)	900 (408)	1000 (454)	1200 (544)	1300 (590)	1400 (635)	1550 (703)	1800 (816)
#8 - 1/2" - 12.7mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	200 (5.66)	225 (6.37)	250 (7.08)	275 (7.79)	300 (8.50)	340 (9.63)	430 (12.18)
	Power - hp (kw)	45 (33.56)	50 (37.28)	55 (41.01)	63 (46.98)	70 (52.20)	75 (55.93)	95 (70.84)
	Abrasive - lb/hr (kg/hr)	1200 (544)	1350 (612)	1500 (680)	1700 (771)	1850 (839)	2025 (919)	2525 (1145)
#10 - 5/8" - 16 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	300 (8.50)	350 (9.91)	400 (11.33)	450 (12.74)	500 (14.16)	550 (15.58)	700 (19.82)
	Power - hp (kw)	70 (52.20)	80 (59.66)	90 (67.11)	100 (74.57)	110 (82.03)	120 (89.48)	150 (111.85)
	Abrasive - lb/hr (kg/hr)	1900 (862)	2200 (998)	2400 (1089)	2700 (1225)	3000 (1361)	3300 (1497)	4000 (1814)
#12 - 3/4" - 19 mm	Air - ft <sup>3</sup> /min (m <sup>3</sup> /min)	430 (12.18)	500 (14.16)	575 (16.28)	650 (18.41)	700 (19.82)	800 (22.66)	1100 (31.15)
	Power - hp (kw)	100 (74.57)	115 (85.76)	130 (96.94)	145 (108.13)	160 (119.31)	175 (130.50)	215 (160.33)
	Abrasive - lb/hr (kg/hr)	2700 (1225)	3100 (1406)	3500 (1588)	3900 (1769)	4300 (1950)	4700 (2132)	5700 (2586)

Note:

This table is to be used for reference only.

The abrasive quantity requirements are based on sand with a bulk density of 100lb/ft<sup>3</sup>. Results will vary with different abrasive types.



Condition A  
Unblasted



Condition B  
Unblasted



Condition C  
Unblasted



Condition D  
Unblasted



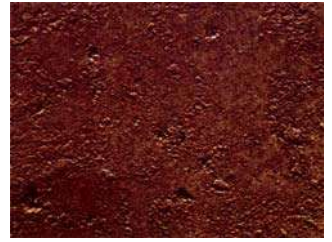
Condition A  
Blasted to Sa1



Condition B  
Blasted to Sa1



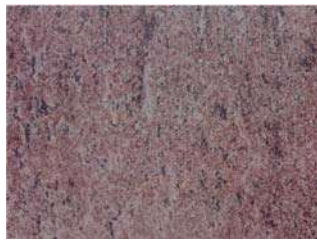
Condition C  
Blasted to Sa1



Condition D  
Blasted to Sa1



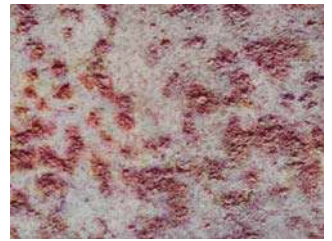
Condition A  
Blasted to Sa2



Condition B  
Blasted to Sa2



Condition C  
Blasted to Sa2



Condition D  
Blasted to Sa2



Condition A  
Blasted to Sa2.5



Condition B  
Blasted to Sa2.5



Condition C  
Blasted to Sa2.5



Condition D  
Blasted to Sa2.5



Condition A  
Blasted to Sa3



Condition B  
Blasted to Sa3



Condition C  
Blasted to Sa3



Condition D  
Blasted to Sa3

**Note:**

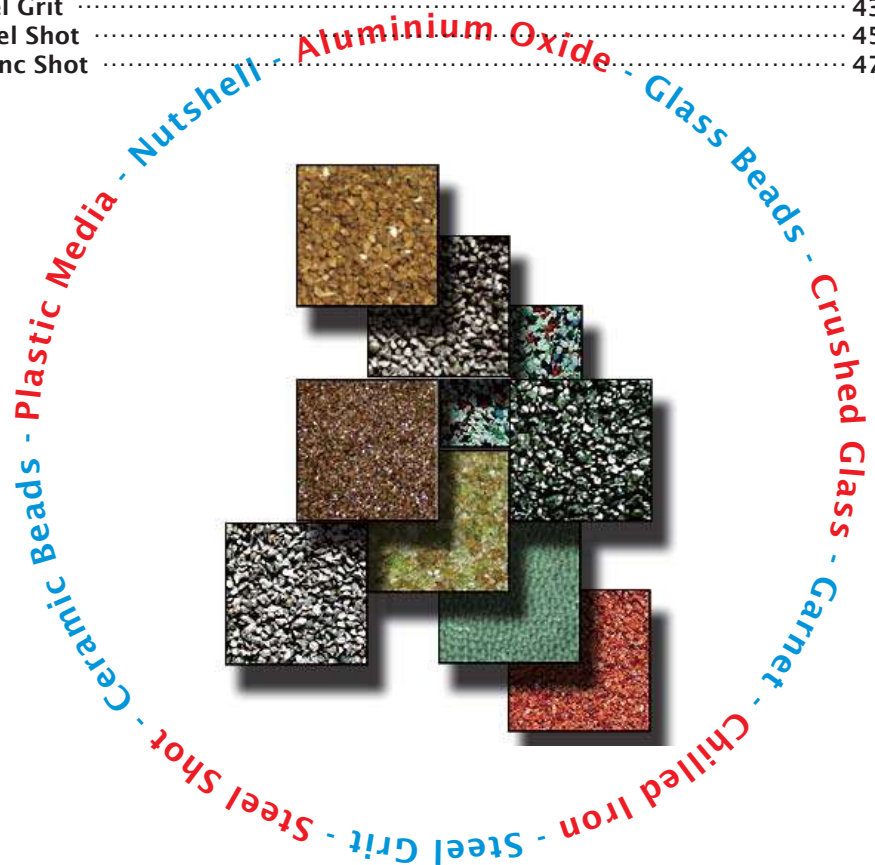
The above pictures are for information purposes only to illustrate various blasted surface cleanliness levels. Do not use this illustration as a blasted surface cleanliness comparator. Surface cleanliness comparators are available from the International Organization for Standardization (ISO).





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# Abrasive Comparison Chart

Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

ABRASIVE	TYPE	SHAPE	HARDNESS	BULK DENSITY (kg/m <sup>3</sup> )	SPECIFIC GRAVITY	COMPARATIVE RECYCLABILITY
Ceramic Beads	M	Spherical	65 HRC	2300	3.76	High
Cut Wire - Carbon Steel	M	Cylindrical - Spherical	440-500 HV	4400	7.6	High
Cut Wire - Stainless Steel	M	Cylindrical - Spherical	300-600 HV	4400	7.6	High
Granite Cutting Grit	M	Angular	63-67 HRC	3700	7.6	High
Stainless Steel Shot	M	Spherical	300 HV	4500	7.8	High
Steel Grit - GP	M	Angular	46-50 HRC	3700	7.6	High
Steel Grit - GL			56-60 HRC			
Steel Grit - GH			Min 60 HRC			
Steel Shot - Normal	M	Spherical	40-50 HRC	4450	7.4	High
Steel Shot - Peening - Regular			45-52 HRC			
Steel Shot - Peening - Hard			55-62 HRC			
Chilled Iron Grit	M	Angular	62 HRC	3990	7.0	Medium - High
Chilled Iron Shot	M	Spherical	62 HRC	4250	7.0	Medium - High
Cut Wire - Aluminium	M	Cylindrical - Spherical	40-60 HV	1500	2.7	Medium - High
Cut Wire - Zinc	M	Cylindrical - Spherical	35-55 HV	4100	7.1	Medium - High
Zinc Shot	M	Spherical	35-55 HV	4200	7.1	Medium - High
Aluminium Oxide	M	Angular	9.0 MOH	2400	3.9 - 3.94	Medium
DeFlash Media	M	Angular - Spherical	5.5-9.0 MOH	1500-2400	2.45 - 2.5	Medium
Glass Beads	M	Spherical	5.5 MOH	1500	2.45 - 2.5	Medium
Milling Beads	M	Spherical	6.0 MOH	1600	2.5	Medium

Figures may vary depending on raw materials and manufacturing processes.  
M=Manufactured N=Naturally Occurring B=By Product

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

ABRASIVE	TYPE	SHAPE	HARDNESS	BULK DENSITY (kg/m <sup>3</sup> )	SPECIFIC GRAVITY	COMPARATIVE RECYCLABILITY
Plastic PA	M	Cubical	60-87 HRM	700	1.03-1.16	Medium
Plastic PB	M	Spherical	70-74 HRM	650-700	1.04-1.07	Medium
Plastic PC	M	Cylindrical	71-75 HRM	700-750	1.1-1.34	Medium
Plastic Type I	M	Angular	3.0 MOH	642-802	1.15-1.25	Medium
Plastic Type II	M	Angular	3.5 MOH	930-962	1.47-1.52	Medium
Plastic Type III	M	Angular	4.0 MOH	930-962	1.47-1.52	Medium
Plastic Type V	M	Angular	3.5 MOH	642-802	1.1-1.2	Medium
Plastic Type VI	M	Angular	3.0 MOH	642-802	1.28-1.33	Medium
Plastic Type X	M	Angular	3.2 MOH	642-802	1.1-1.2	Medium
Plastic Type A	M	Angular	4.0 MOH	642-802	1.47-1.52	Medium
Plastic Type L	M	Angular	3.5 MOH	642-802	1.1-1.2	Medium
Line Marking Beads	M	Spherical	5.5-6.0 MOH	1600	2.5	Medium
Silicon Carbide	M	Angular	9.15 MOH	1760	3.2	Medium
Apricot	N	Angular	3.0-4.0 MOH	725	1.4	Medium - Low
Corn	N	Angular	2.0-2.5 MOH	600	1.15	Medium - Low
Garnet	N	Angular	7.5-8.0 MOH	2400	4.1	Medium - Low
Walnut	N	Angular	2.5-3.0 MOH	725	1.28	Medium - Low
Coal Slag	B	Angular	6.0-7.0 MOH	1350	2.63	Low
Copper Slag	B	Angular	6.0-7.0 MOH	1900	3.4	Low
Crushed Glass	B	Angular	6.0 MOH	1300	2.5	Low
Silica Sand	N	Angular	5.0-6.0 MOH	1500	2.65	Low
Sodium Bicarbonate	N	Angular	3.0 MOH	800	2.25	Low
Tin Slag	B	Angular	7.0 MOH	1800	3.2	Low

Figures may vary depending on raw materials and manufacturing processes.  
M=Manufactured N=Naturally Occurring B=By Product

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 23-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199





# QuickCut™ Aluminium Oxide

Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

## Product Description and Technical Data:

QuickCut™ Aluminium Oxide is one of the most economical processing medias for many dry and wet process applications where anything from a coarse profile to a micro finish is required.

This sharp, angular abrasive is the second hardest mineral after diamond and is especially suitable when no ferrous contamination can be tolerated on the processed surface.

It can be used for the roughest cutting-down operations or in well-conditioned, pebbled form for producing very low microinch finishes on precision dimensioned parts. Its high density and sharp, angular structure make it one of the fastest cutting abrasives available.

QuickCut™ is obtained by a process of electrically fusing and processing high-grade Bauxite to produce Brown Aluminium Oxide, and high-grade Alumina in the case of White and Pink Aluminium Oxide. Their crystalline nature contributes to their hard and fast cutting properties. It is also used widely in the manufacture of bonded and coated abrasives.

QuickCut™ can be recycled many times depending on the grade of material and the actual process and may be used in most types of standard abrasive blasting equipment.

## QuickCut™ Abrasive Properties:

Shape	Angular
Hardness (Moh Scale)	9
Particle S.G.	3.9 - 3.94
Colour	Brown, Pink, White
Bulk Density (Kg/m³)	2400
Size Standard	FEPA / ANSI



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads



**QuickCut™ Typical Chemical Composition:**

	Brown # 120 and below	Brown # 150 - # 220	Brown # 240	Pink	White
Al <sub>2</sub> O <sub>3</sub>	≥ 95.0 %	≥ 93.0 %	≥ 92.0 %	≥ 99.0 %	≥ 99.0 %
TiO <sub>2</sub>	≤ 3.0 %	≤ 3.6 %	≤ 4.5 %	N/A	N/A
SiO <sub>2</sub>	≤ 1.3 %	≤ 1.5 %	≤ 2.0 %	< 0.2 %	< 0.1 %
Cr <sub>2</sub> O <sub>3</sub>	N/A	N/A	N/A	< 0.5 %	N/A
Fe <sub>2</sub> O <sub>3</sub>	≤ 0.16 %	≤ 0.3 %	≤ 0.4 %	< 0.15 %	< 0.1 %
CaO	≤ 0.5 %	≤ 0.6 %	≤ 0.7 %	< 0.5 %	< 0.5 %
Na <sub>2</sub> O	N/A	N/A	N/A	< 0.5 %	< 0.5 %

**QuickCut™ Available Sizes:**

Grade	12	14	16	20	24	30	36	40	46
Microns	1400-2000	1180-1700	1000-1400	850-1180	600-850	410-500	425-600	355-500	300-425
Inch (.001")	.055-.078	.046-.067	.040-.055	.033-.046	.023-.033	.016-.019	.017-.023	.014-.019	.012-.017

Grade	60	80	90	100	120	150	180	220	240
Microns	212-300	150-212	125-180	106-150	90-125	63-106	53-90	45-75	28-70
Inch (.001")	.008-.012	.006-.008	.005-.007	.004-.006	.003-.005	.0025-.004	.002-.003	.0018-.003	.001-.0027

Other non-standard sizes available upon request

**QuickCut™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25kg Bags)
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**QuickCut™ Ordering Information:**

Stock Code	AAL - XXXYZ
Key	XXX - Mesh Size (e.g. 030 for mesh 30) Y - B for Brown Y - P for Pink Y - W for White Z - Blank for Standard Grade Z - P for Premium Grade

Note - Figures may vary depending on raw materials and manufacturing processes used. Contact Pan Abrasives for further information. Brochure reference # 24-001 - Rev 01

Western Australia  
260 Welshpool Road  
Whelshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queesland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

**Product Description and Technical Data:**

CeraPeen™ Ceramic Beads and Shot are manufactured by an electric/thermal fusion of oxides. The internal structure is made up of a crystalline ceramic phase, bonded by an amorphous silica phase, resulting in high impact properties coupled with good hardness.

CeraPeen™ Beads are generally used for the surface treatment of components such as: rubber and plastic moulds, castings, boiler and heat exchanger parts. CeraPeen™ shot is used for the peening and peen forming of components, specifically in the aerospace industry.



When used for peening applications, CeraPeen™ Ceramic Shot offers several advantages over traditional peening media, such as steel shot and glass beads. The media can achieve peening intensities similar to those obtainable with steel shot, but with a resulting lower surface roughness. CeraPeen™ may also be used in peening applications where steel shot cannot be used due to potential ferrous contamination from the steel media.

The high density of CeraPeen™ Shot enables peening intensities, equivalent to those obtainable with glass beads, to be obtained at a greatly reduced abrasive velocity. This feature results in far less abrasive breakdown and thus less dust, a cleaner working environment and better operator visibility.

The narrow particle size distribution coupled with low breakdown rates, up to 15:1 in favour of CeraPeen™ when compared to glass beads, enables repeatable, consistent results to be achieved, a critical consideration when selecting a media for peening applications.

**CeraPeen™ Abrasive Properties:**

Shape	Smooth Spherical Beads
Hardness (HRC)	65
True Relative Density	3.85
Bead Relative Density	3.76
Bulk Density (kg/m³)	2300
Size Standard	Z - AMS 2431 / 7
	B - NF L 06.824



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

### CeraPeen™ Abrasive Properties:

Typical Crystallographic Analysis:	
Zirconia	67 %
Glassy Silica Phase	33 %
Typical Chemical Composition:	
ZrO <sub>2</sub>	67 %
SiO <sub>2</sub>	30 %
Others	3 %

### CeraPeen™ Available Sizes:

Grade	B20	B30	B40	B60	B120	B125	B205
Microns	600-850	425-600	250-425	125-250	70-125	0-125	0-63
Inch (.001")	.023-.033	.016-.023	.01-.016	.005-.01	.003-.005	0-.005	0-.002

Grade	Z850	Z600	Z425	Z300	Z210	Z150	Z100
Microns	850-1180	600-850	425-600	300-425	210-300	150-210	100-150
Inch (.001")	.033-.04	.023-.033	.016-.023	.01-.016	.008-.01	.006-.008	.004-.006

### CeraPeen™ Packaging:

25kg Pails	25kg Bags
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### CeraPeen™ Ordering Information:

Stock Code	AOT - OAZIXYYY
Key	X - B for B type and S for Z type material YYY - Product size (e.g. Z300, YYY = 300)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 25-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

### Product Description and Technical Data:

NaturalGrit™ Cereal Abrasives are a family of abrasives manufactured and processed from natural agricultural fibers, to produce a soft blasting media conforming to international standards such as SAE and JIS.

NaturalGrit™ is produced in 3 types, Type A - Apricot; Type C - Corn Cob and Type W - Walnut. The major advantage NaturalGrit™ has over more aggressive abrasives is that fragile components can be cleaned or deflashed without incurring any damage or etching on the underlying surface. The low oil content of NaturalGrit™ makes it an ideal abrasive for deflashing electronic components when no oil residue is permitted to remain on the parts.



The low oil content, along with its low combustion temperature, also makes NaturalGrit™ ideally suited for removing burnt on deposits from automobile superchargers and turbine blades, as an expendable blasting abrasive; the product simply burns off after blasting without leaving any residue. As such, the product finds applications in power generation stations, turbine overhaul factories and in the aerospace industry.

Both Types A and W, the heaviest and the lightest respectively, of NaturalGrit™ are widely used for cleaning moulds, motor armatures and motor drives prior to rewinding. Type C NaturalGrit™ is high absorbent and its main use is mass finishing processes for drying and absorbing water, oil or wax from processed parts and also for fine polishing or brightening of parts.

Being a naturally occurring agricultural product, no hazardous waste is produced by the abrasive, thus environmental concerns and disposal costs are negated.

### NaturalGrit™ Abrasive Properties:

NaturalGrit™	Apricot Type A	Corn Cob Type C	Walnut Type W
Fibre Content %	92.2	94.4	90.4
Oil Content %	0.1	0.2	0.4
Water Content %	7.7	5.4	8.7
Hardness (Moh Scale)	3.0 - 4.0	2.0 - 2.5	2.5 - 3.0
Specific Gravity	1.4	1.15	1.28
Bulk Density (kg/m³)	725	600	725
Acidity pH	4-6	5-7	4-6



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**NaturalGrit™ Available Sizes:**

Grade	6/8	12/20	20/30	20/40	30/40
Microns	2360-3350	850-1700	600-850	425-850	425-600
Inch (.001")	0.090-0.131	0.033-0.066	0.023-0.033	0.016-0.033	0.016-0.023
Type	C	A,C	A,C	A,C	A,C

Grade	40/60	12	16	20	36	46
Microns	250-425	1700	1180	850	425	355
Inch (.001")	0.009-0.016	0.067	0.046	0.033	0.016	0.014
Type	A, C	W	W	W	W	W

Other sizes available upon request

**NaturalGrit™ Packaging:**

20kg Bags	0.5 Tonne Pallet (25 x 20kg Bags)
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**NaturalGrit™ Ordering Information:**

Stock Code	AXX-YY-ZZ
Key	XX - AG for Type A Apricot Grit XX - OT for Type C Corn Cob XX - WS for Type W Walnut YY - Upper mesh size (e.g. YY = 06 for mesh 6/8) ZZ - Lower mesh size (e.g. ZZ = 08 for mesh 6/8) - Blank for one mesh

Note - Figures may vary depending on raw materials and manufacturing processes used.  
 Contact Pan Abrasives for further information. Brochure reference # 26-001

Western Australia  
 260 Welshpool Road  
 Welshpool 6106  
 Tel: 08 9208 2000  
 Fax: 08 9208 2099

Victoria  
 82 Logis Boulevard  
 Dandenong Sth 3175  
 Tel: 03 9565 5100  
 Fax: 03 9565 5199

Queensland  
 1/22 French Avenue  
 Brendale Qld 4500  
 Tel: 07 3293 7000  
 Fax: 07 3293 7099

New South Wales  
 28 Bryant Street  
 Padstow NSW 2211  
 Tel: 02 8708 5150  
 Fax: 02 8708 5195

South Australia  
 25 Wing Street  
 Wingfield SA 5013  
 Tel: 08 8345 7700  
 Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
 Tel: 08 94199 9100 Fax: 089 9419 9199





# FastBlast™ Chilled Iron Shots

Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

## Product Description and Technical Data:

FastBlast™ Chilled Iron Shots are manufactured from hypo-eutectic composition iron to produce a structure of iron carbide in a martensite matrix.

Iron abrasives are hard and break down in a manner which ensures continual exposure of new sharp cutting edges. It is this mechanism which provides their characteristic rapid cleaning action and a silvery, sharp edged profile to surfaces after blast treatment.

Chilled Iron Shots are made in accordance with technical specification of BS 2451.

Spherical particle shaped, available in a wide range of sizes from 8mm down and including all the shot grades contained in BS 2451 specification, which are generally used in non-abrasive applications.

Ferrodent (R)/Ballast-Pak (R) - specially blended forms of iron abrasives, both round and angular designed to satisfy individual requirements in high density aggregate and shielding type applications.

Other typical applications include: vibration and noise suppression, wear resistant surfaces, roll etching, stone sawing, etc..

## FastBlast™ Abrasive Properties:

Shape	Spherical	Total Carbon %	2.50-3.00
Hardness (HRC min)	62	Silicon %	1.40-1.80
Bulk Density (kg/m³)	4250	Sulphur %	0.14-0.20
Particle S.G.	7.0	Manganese %	0.30-0.50
Size Standard	BSS / SAE	Phosphorus %	0.50-1.00



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**FastBlast™ Available Sizes:**

BSS (BS2451)	S070	S120	S170	S240	S340
SAE (J444)	S70	S110	S170	S230	S330
Mesh Size (mm)	0.18 - 0.42	0.30 - 0.60	0.42 - 0.85	0.60 - 1.00	0.85 - 1.40
MIN% between sizes shown	80%	80%	85%	85%	85%

BSS (BS2451)	S390	S470	S550	S660	S800
SAE (J444)	S390	S460	S550	S660	S780
Mesh Size (mm)	1.00 - 1.70	1.18 - 2.00	1.40 - 2.00	1.70 - 2.36	2.00 - 2.80
MIN% between sizes shown	85%	85%	85%	85%	85%

**FastBlast™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25kg Bags)
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**FastBlast™ Ordering Information:**

Stock Code	ASA - CISXXX
Key	XXX - Product grade BSS (e.g. 170 for S170)

Note - Figures may vary depending on raw materials and manufacturing processes used. Contact Pan Abrasives for further information. Brochure reference # 27-001

Western Australia 260 Welshpool Road Whelshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099	Victoria 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199	Queensland 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	New South Wales 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	South Australia 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
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Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

### Product Description and Technical Data:

FastBlast™ Chilled Iron Grit is a sharp, hard, angular, metallic abrasive ideally suited for extremely fast blast cleaning of steel and iron components.

The friability of FastBlast™ results in it breaking down to form smaller particles, inheriting the same sharp, angular properties and shape as the original particles. This unique feature contributes to the superior rapid cleaning rates and high productivity.

As the particle shape is constantly maintained, the abrasive is also suitable when a repeatable, consistent surface profile and finish is required.

FastBlast™ is ideally suited for compressed air blasting applications especially when a high production rate is required. Being lower in cost, FastBlast™ is an economical alternative to steel abrasives, in situations where 100% of the abrasive cannot be retained for recycling.

If recycling facilities can be utilised, FastBlast™ also offers a viable alternative to copper slag or other expendable abrasives, as it may be recycled up to 50 times.

FastBlast™ can also be used as a high aggregate in marine ballast applications. These high-density aggregates are also used for hazardous radiation shielding purposes.



### FastBlast™ Abrasive Properties:

Shape	Sharp, Angular	Foreign Matter %	< 1.0
Hardness (HRC min)	62	Total Carbon %	2.50 - 3.00
Bulk Density (kg/m³)	3990	Silicon %	1.40 - 1.80
Particle S.G.	7.0	Manganese %	0.30 - 0.50
Colour	Silvery, Light Brown	Sulphur %	0.14 - 0.20
Size Standard	BSS	Phosphorus %	0.50 - 1.00



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads



**FastBlast™ Available Sizes:**

<b>Grade</b>	<b>G02</b>	<b>G05</b>	<b>G07</b>	<b>G12</b>	<b>G17</b>	<b>G24</b>
<b>Microns</b>	120	120 - 130	180 - 420	300 - 710	420 - 850	600 -1000
<b>Inch (.001")</b>	.004	.004 - .011	.007 - .016	.011 - .027	.015 - .033	.023 - .039

<b>Grade</b>	<b>G34</b>	<b>G39</b>	<b>G47</b>	<b>G55</b>	<b>G66</b>	<b>G80</b>
<b>Microns</b>	850 - 1180	1000 - 1400	1180 - 1700	1400 - 2000	1700 - 2360	2000 - 2800
<b>Inch (.001")</b>	.033 - .046	.039 - .055	.046 - .066	.055 - .078	.066 - .092	.078 - .110

**FastBlast™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25kg Bags)
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**FastBlast™ Ordering Information:**

<b>Stock Code</b>	ASA - CIGXXX
<b>Key</b>	XXX - Product grade BSS (e.g. 017 for G17)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
 Contact Pan Abrasives for further information. Brochure reference # 27-002

Western Australia 260 Welshpool Road Welshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099	Victoria 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199	Queensland 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	New South Wales 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	South Australia 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
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Abrasiflex Pty Ltd ABN 42 065 145 888

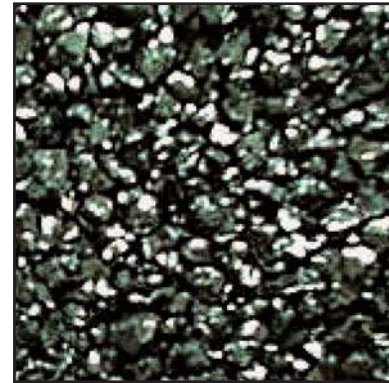
PO Box 2133, Rockingham DC, WA 6967  
 Tel: 08 94199 9100 Fax: 089 9419 9199



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

### Product Description and Technical Data:

JetBlast™ Copper Slag is a by-product produced in the manufacture of copper. During the smelting and quenching process, in the copper smelter, mineral slag is converted to Iron Silicate, thus producing raw copper slag. The raw copper slag is then processed at up to 90 tonnes per hour, to produce JetBlast™. JetBlast™ is produced from 100% raw copper slag and is not mixed with recycled copper slag or tin slag. Additions of either of these two products can significantly increase levels of Radioactivity and Conductivity.



JetBlast™ is a low cost expendable material suited for open blast cleaning and due to its low silica content does not pose the health hazards created by silica sand. Its sharp, hard cutting edges provide a fast cleaning action and excellent surface profile preparation. JetBlast™ is one of the most economical expendable abrasives available for cleaning steel surfaces where recovery and reuse are not practical.

Coarse grade JetBlast™ is used predominantly in shipyards for the removal of heavy corrosion and coatings leaving a typical surface profile of up to 120 microns. Medium grade JetBlast™ is used for cleaning mill scale and medium rust removal, creating a typical surface profile of 60 to 100 microns. Fine grade JetBlast™ is used on new steel to remove mill scale and light rust resulting in a typical surface profile of 40 microns. For low-end applications, where blasting cost is a major factor, a general grade material is available.

### JetBlast™ Abrasive Properties:

Shape	Sharp, Angular
Hardness (Moh Scale)	6-7
Bulk Density (kg/m³)	1900
Particle S.G.	3.4
Colour	Shiny Black
Size Standard	ASTM
Conductivity	< 25ms/m

Fe <sub>2</sub> O <sub>3</sub> %	> 45	Tin %	0.08
SiO <sub>2</sub> %	> 31	Antimony %	0.07
Al <sub>2</sub> O <sub>3</sub> %	> 4	Chromium %	0.02
Zn %	< 1	Cobalt %	0.02
CaO %	< 7	Nickel %	0.02
Cu %	< 1	Cadmium %	0.004
MgO %	> 1.5	Arsenic	Not Detected
TiO <sub>2</sub> %	< 2	Beryllium	Not Detected
Free Silica %	< 1	Trace Elements %	< 0.5
Lead %	0.1	Moisture %	< 1



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**JetBlast™ Available Sizes:**

Grade	30/60	16/30	12/30	10/30	8/30	G. Grade
Microns	250 - 600	250 - 1180	600 - 1700	600 - 2000	600 - 2360	0 - 5000
Inch (.001")	0.009 - 0.023	0.009 - 0.046	0.023 - 0.06	0.023 - 0.078	0.023 - 0.092	0 - 0.195

**JetBlast™ Packaging:**

50kg Bags	2.0 Tonnes Pallet (40 Bags)
2.0 Tonnes Bulk Bag	1.5 Tonnes Pallet (30 Bags)
Bulk Hoppers, Feeders and Tankers	1.0 Tonne Pallet (20 Bags)

**JetBlast™ Ordering Information:**

Stock Code	ACS - XXXX - YY - ZZ
Key	<p>XXXX - Product grade (e.g. 8/30, XXXX=0830)                      XXXX - R0000 or R0001 when product recycled                      YY - Product weight (e.g. 2T, YY=20)                      YY - 00 when packing in bulk or loose bags                      ZZ - Packing                      AO for BULK                      BA for LOOSE BAGS                      CP for BULK BAG                      CX for JUNGLE BOX                      DA for SHRINK WRAP</p>

Note - Figures may vary depending on raw materials and manufacturing processes used.  
 Contact Pan Abrasives for further information. Brochure reference # 28-001

Western Australia  
 260 Welshpool Road  
 Welshpool 6106  
 Tel: 08 9208 2000  
 Fax: 08 9208 2099

Victoria  
 82 Logis Boulevard  
 Dandenong Sth 3175  
 Tel: 03 9565 5100  
 Fax: 03 9565 5199

Queensland  
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 Tel: 08 8345 7700  
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PO Box 2133, Rockingham DC, WA 6967  
 Tel: 08 94199 9100 Fax: 089 9419 9199



**EnviroGlass™ Typical Chemical Composition:**

Na <sub>2</sub> O + K <sub>2</sub> O + Li <sub>2</sub> O %	12 - 15
CaO + MgO %	10 - 13
Al <sub>2</sub> O <sub>3</sub> %	1 - 2
Other Oxides (Except SiO <sub>2</sub> ) %	0 - 1
SiO <sub>2</sub> (bound) %	Balance
<b>Contains no free Silica</b>	

Not classified as Hazardous according to criteria of WorkSafe Australia.

**EnviroGlass™ Available Sizes:**

Grade	1.5	0.850
Microns	1500 - 850	850 - 300
Inch (.001")	0.060 - 0.033	0.033 - 0.012

Other sizes available upon request

**EnviroGlass™ Packaging:**

1.5 Tonnes Bulk Bags
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**EnviroGlass™ Ordering Information:**

<b>Stock Code</b>	AOT - GCXXX - YYYY
<b>Key</b>	XXX - Product size (e.g. 085 for 0.85mm) YYYY - Packing B15T for 1.5 Tonnes Bulk Bags

Note - Figures may vary depending on raw materials and manufacturing processes used.  
 Contact Pan Abrasives for further information. Brochure reference # 29-001

<b>Western Australia</b> 260 Welshpool Road Welshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099	<b>Victoria</b> 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199	<b>Queensland</b> 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	<b>New South Wales</b> 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	<b>South Australia</b> 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
Abrasiveflex Pty Ltd ABN 42 065 145 888		PO Box 2133, Rockingham DC, WA 6967 Tel: 08 94199 9100 Fax: 089 9419 9199		



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

**Product Description and Technical Data:**

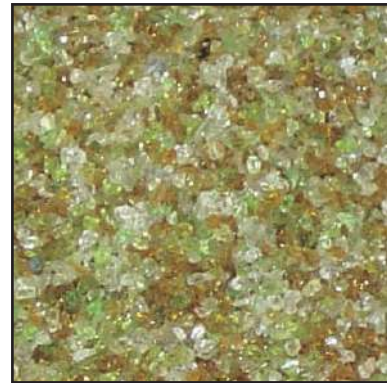
EnviroGlass™ Angular blast media is manufactured from 100% recycled bottle and plate glass material and will produce an excellent finish and profile leaving the surface contamination free.

A low cost expendable blast cleaning media containing neither free silica nor heavy metals, EnviroGlass™ does not pose health hazards such as could be created by silica sand or slag media.

The sharp cutting angular edges provide a fast cleaning action at lower pressures producing an excellent surface profile preparation and yet is environmentally safe and user friendly.

Available in two different mesh grade sizes, EnviroGlass™ is one of the most economical expendable abrasives for cleaning surfaces where recovery and reuse is not practical or possible.

EnviroGlass™ is processed under stringent quality control procedures to ensure the size and distribution of particles in the abrasive mix is maintained at the correct proportion. This ensures an accurate, consistent surface profile is maintained.



**EnviroGlass™ Abrasive Properties:**

Shape	Angular
Hardness (Moh Scale)	6
Bulk Density (kg/m³)	1300
Particle S.G.	2.5
Colour	Mixed
Conductivity (gm/cc)	2.46 - 2.49
PH (TLCP)	8.50



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

*Product Description and Technical Data:*

WireBlast™ is a popular alternative to cast steel abrasives and finds specific niche markets where cast materials do not offer adequate performance. This is particularly true for peening applications where a higher level of abrasive hardness is desirable or when components to be peened have a high level of inherent hardness.

In order to produce repeatable peening results, the ideal peening media should contain particles of identical size, shape, hardness and density.

WireBlast™ is manufactured from wire strand, cut to lengths equal to its diameter. This results in particles virtually identical in size, shape, hardness and density and thus a media ideally suited for peening purposes.

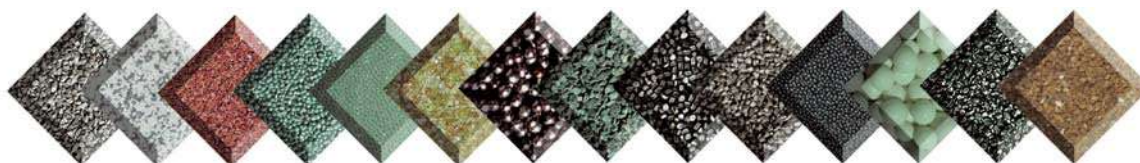
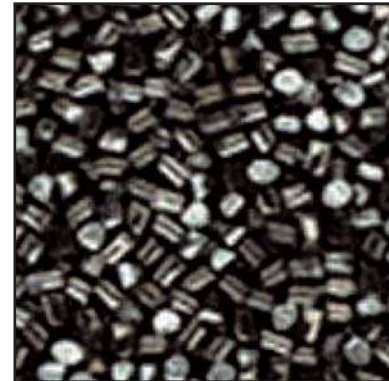
WireBlast™ Cut Wires are supplied in three (3) forms depending on the requirements of the application. 1. As Cut (cylindrical with sharp edges), 2. Partially Conditioned (corners rounded off) and 3. Fully Conditioned (spherical). During use WireBlast™ Stainless Steel will work harden the more it is used, leading to an extremely long abrasive life span.

The close size range of the WireBlast™ particles ensures consistent results are achieved when used for surface finishing and treatment of metallic materials.

WireBlast™ Carbon Steel is very versatile and durable when compared to cast steel abrasives, due to virtually no internal flaws, i.e. porosity, shrinkage, cracks etc. Its higher density also offers a higher blast impact when compared with cast steel abrasives.

WireBlast™ Stainless Steel finds applications in cleaning, polishing stainless steel rods, pipes, plates and nonferrous die-cast castings (such as aluminium and magnesium). It is also used for cleaning magnetic parts when ferrous residues cannot be tolerated.

WireBlast™ Aluminium and Zinc are predominantly used for sand, stain and burr removal and to produce a glossy finish on components. It is also used in wheel blast applications where a 'soft impact' is desired during the blasting process.



Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

### WireBlast™ Abrasive Properties:

	Aluminium 1070	Carbon Steel	Stainless Steel SUS 304	Stainless Steel SUS 430	Zinc
Hardness (HV)	40 - 60	400 - 500	400 - 600	300 - 450	35 - 55
Density (g/cc)	2.7	7.6	7.6	7.6	7.1
Bulk Density (kg/l)	1.5	4.4	4.4	4.4	4.1
Ferrous / Non Ferrous	NF	F	F	F	NF
C %	/	0.4 - 0.7	< 0.08	< 0.12	/
Si %	< 0.2	0.15 - 0.35	< 1	< 0.75	/
Mn %	< 0.03	0.6 - 0.9	< 2	< 1	/
P %	/	< 0.04	< 0.045	< 0.04	/
S %	/	< 0.04	< 0.03	< 0.03	/
Ni %	/	/	8 - 10.5	N/A	/
Cr %	/	/	18 - 20	16 - 18	/
Cu %	< 0.04	/	/	/	/
Fe %	< 0.25	/	/	/	< 0.005
Mg %	/	/	/	/	/
Zn %	< 0.04	/	/	/	> 99.99
Pb %	/	/	/	/	< 0.007
Cd %	/	/	/	/	< 0.004

### WireBlast™ Available Sizes:

Grade	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.5
Microns	300	400	500	600	700	800	1000	1200	1500	1700	2000	2300	2500
Inch (.001")	0.011	0.015	0.019	0.023	0.027	0.031	0.039	0.047	0.059	0.066	0.078	0.090	0.098
Al1070				✓		✓	✓	✓	✓	✓	✓	✓	✓
Steel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SUS304	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SUS430		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Zn									✓	✓	✓		

Other sizes and AMS specification available upon request

### WireBlast™ Packaging:

25kg Bags in Drum	10kg Bags in Drum
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### WireBlast™ Ordering Information:

<b>Stock Code</b>	<b>AOT - CWXXX-YYZZ</b>
<b>Key</b>	XXXX - Product Material AL1070 for Aluminium 1070 C62B, C72A or C82B for Carbon Steel SS304 for Stainless Steel 304 SS430 for Stainless Steel 430 ZN for Zinc YY - Product size (e.g. 0.6mm, YY = 06) ZZ - Conditioned form G1 for As Cut G2 for Semi Rounded & Conditioned G3 For Fully Rounded & Conditioned

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 30-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
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PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199





## DeFlash Media

### *Product Description and Technical Data:*

DeFlash Media is an abrasive originally designed for use in the semiconductor manufacturing industry for deflashing IC leadframes.

Due to low production rates or warpage problems caused by using glass beads and soft abrasives, DeFlash Media was developed as an alternative.

The abrasive is a mixture of both QuickCut™ Aluminium Oxide and BrightBlast™ Glass Beads. This combination allows IC leadframes to be deflashed providing a smooth surface finish, as achievable with glass beads, but at a higher production rate.

The angular QuickCut™ also aids in the removal of tightly adhered flash, that would not normally be removed by glass beads alone.

By altering the proportion of each abrasive type, DeFlash Media can be fine tuned to suit individual requirements depending on the application.

Due to the versatility of the proportions of QuickCut™ Aluminium Oxide and BrightBlast™ Glass Beads in the abrasive mix, DeFlash Media may also be used for deflashing or surface finishing a variety of components where the use of the individual abrasive does not achieve the desired result or finish.

In order to ensure consistency within individual batches, DeFlash Media is produced by a vibratory mixing process to provide thorough mixing and even particle distribution. DeFlash Media is widely used in, and suitable for both dry and wet deflashing/blasting processes.



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads





**DeFlash Abrasive Properties:**

QuickCut™ Aluminium Oxide	
Shape	Angular
Hardness (HRC min)	9
Bulk Density (kg/m³)	2400
Particle S.G.	3.9 - 3.94
Colour	Brown
Al <sub>2</sub> O <sub>3</sub>	> 94.0 %
Fe <sub>2</sub> O <sub>3</sub>	< 0.16 %
TiO <sub>2</sub>	< 3.6 %
SiO <sub>2</sub>	< 1.3 %
CaO	0.5 %
Na <sub>2</sub> O	N/A

BrightBlast™ Glass Beads	
Shape	Spherical
Hardness (HRC min)	5.5
Bulk Density (kg/m³)	1500
Particle S.G.	2.45 - 2.5
Colour	Clear
Free Silica %	0

**DeFlash Available Sizes:**

Grade	31 - IC		41 - IC	
	QuickCut™ #120	BrightBlast™ GB10	QuickCut™ #120	BrightBlast™ GB10
Microns	125	90 - 150	125	90 - 150
Inch (.001")	0.004	0.003 - 0.006	0.004	0.003 - 0.006

**DeFlash Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25kg Bags)
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**DeFlash Ordering Information:**

Stock Code	AOT - OADMXX
Key	XX - Product grade (e.g. 31 for 31- IC)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 31-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



## Product Description and Technical Data:

EnviroGrit™ Garnet is derived from mined Almandine mineral deposits. Almandine is the heaviest and hardest of all the garnet types in the garnet family group, resulting in an ideal abrasive grain for blasting applications.

Once extracted, the raw material is processed to remove chlorides and sulphates, magnetically screened to remove ferrous particulate and finally screened to the desired size range.

Being an inert, non-toxic mineral, containing less than 0.1% free silica, EnviroGrit™ is an environmentally safe, user friendly alternative to silica sand and other expendable abrasive.

EnviroGrit™ Garnet particles are sub-angular in shape resulting in extremely fast cutting rates and low abrasive consumption. The high specific gravity of the abrasive grains and the low breakdown rate, results in significantly reduced dust levels, thus ensuring good operator visibility and less risk to personnel or environmental contamination in surrounding areas. The low consumption rate and the recyclability, up to 5 times, also ensures the volume of waste generated for disposal is minimised. Being a naturally occurring mineral EnviroGrit™ is also a non-pollutant to the environment.

Blast cleaning production rates using EnviroGrit™ are greatly increased when compared to other expendable abrasives. This factor, along with the reduced amount of abrasive consumed can lead to significant cost savings per square meter blasted and often results in EnviroGrit™ Garnet being the most cost effective abrasive available for the blasting project.

EnviroGrit™ is processed under stringent quality control regulations to ensure the size and distribution of particles in the abrasive mix is maintained at the correct proportion. This ensures an accurate, consistent surface profile is maintained. A surface cleanliness of Class Sa3, even on heavily pitted and corroded steel, is easily achievable with EnviroGrit™, and abrasive embedment into the surface is minimal.

Containing minimal ferrous particles EnviroGrit™ can be utilised to blast corrosion resistant steels and non-ferrous products without the risk of ferrous contamination to the surface.

EnviroGrit™ is also utilised as a cutting media in water jet cutting and as a filtration media.



Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads



**EnviroGrit™ Abrasive Properties:**

Shape	Angular Free - flowing Grit	Typical Chemical Composition	
Hardness (Moh Scale)	7.5 - 8.0	Almandine Garnet %	97 - 98
Bulk Density (Kg/m³)	2400	Ilmenite %	1 - 2
Particle S.G.	4.1	Quartz %	< 0.5
Colour	Dark Pink	Zircon %	< 0.2
Conductivity (ms/m)	< 25		
Radioactivity (limit 10Bq/kg)	Undetected		
Size Standard	ASTM		

**EnviroGrit™ Available Sizes:**

Grade	BR1	CB1	CB2	SB1	PB1	PF1	PF2	PF3
Microns	150	180	250	200 - 500	250 - 600	425 - 850	850 - 1180	850 - 2000
Inch (.001")	0.006	0.007	0.009	0.008-0.020	0.009-0.023	0.016-0.033	0.033-0.046	0.033-0.078

Other sizes available upon request

**EnviroGrit™ Packaging:**

1 Tonne Bulk Bag (40 x 25 kg Bags)	2 Tonne Bulk Bag
25kg Bags	1 Tonne Bulk Bag

**EnviroGrit™ Ordering Information:**

Stock Code	AGG - GNXXX - YYY
Key	XXX - Code for Garnet Grade YYY - Packing Blank for 25kg Bags B1T for 1 mt Bulk Bag B2T for 2 mt Bulk Bag

Note - Figures may vary depending on raw materials and manufacturing processes used.  
 Contact Pan Abrasives for further information. Brochure reference # 32-001 - Rev 01

Western Australia 260 Welshpool Road Welshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099	Victoria 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199	Queensland 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	New South Wales 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	South Australia 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
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Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
 Tel: 08 94199 9100 Fax: 089 9419 9199

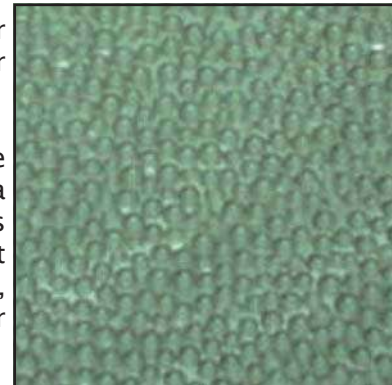


Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

**Product Description and Technical Data:**

BrightBlast™ Glass Beads are unique and popular air blasting media widely used for cleaning, conditioning or peening metallic surfaces.

BrightBlast™ is manufactured from high-grade crushed and sized glass cullet. The cullet is melted to a spherical shape and annealed to equalise internal stresses and resist fracture. These non-abrasive, clear, transparent spheres function without particle embedment, pick-up, contamination or other damage to the surface under treatment.



Depending on the size and operating parameters selected, BrightBlast™ produces a surface finish ranging from fine matte to bright satin. Decorative and special effects on surfaces may easily be achieved by masking and blasting surfaces with BrightBlast™.

The inherent characteristics of BrightBlast™ Glass Beads permit cleaning and deburring of critically toleranced parts without removing any base metal, thereby preserving the critical tolerances. In addition, the inherent strength of glass beads is such that it can survive multiple impacts, making it an ideal abrasive for use in blasting equipment fitted with recycling facilities.

BrightBlast™ Glass Beads are widely utilised in peening applications to impart a layer of compressive stresses on components exposed to cyclical loadings and containing residual tensile stresses.

The use of BrightBlast™, topeen the component, reduces the risk of failure due to fatigue stress or stress corrosion cracking. Being chemically inert and non-toxic, BrightBlast™ will not leave any undesirable or ferrous residue on blasted surfaces and uncontaminated spent media is environmentally harmless.

**BrightBlast™ Abrasive Properties:**

Shape	Spherical	Basic Material	Soda Lime Glass
Hardness (Moh)	5.5	Roundness %	Min 70
Bulk Density (Kg/m³)	1500	Broken Particles %	Max 3 by count
Particle S.G.	2.45 - 2.50	Free Silica %	0
Colour	Clear Glass	Size Standard	ASTM



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**BrightBlast™ Available Sizes:**

Grade	GB3	GB4	GB5	GB6	GB7	GB8	GB9	GB10	GB11	GB12	GB13
Code	03B	04C	05AA	06D	07AB	08AC	09AD	10AE	11AG	12AH	13AI
Microns	425-600	250-425	212-425	212-300	180-300	125-250	106-212	90-150	53-106	45-90	< 53
Inch (.001")	.016-.023	.009-.016	.008-.016	.008-.011	.007-.011	.005-.010	.004-.008	.003-.006	.002-.004	.001-.003	< .002

Grade	MIL - 3	MIL - 4	MIL - 5	MIL - 6	MIL - 7	MIL - 8	MIL - 9	MIL - 10	MIL - 11	MIL - 12	MIL - 13
Microns	850-600	600-425	425-300	300-212	250-180	212-150	180-125	150-90	125-75	106-63	90-45
Inch (.001")	.033-.023	.023-.016	.016-.012	.012-.008	.010-.007	.008-.006	.007-.005	.006-.0035	.005-.003	.004-.002	.0035-.001

Other sizes peening grades available upon request.

**BrightBlast™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25 kg Bags)
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**BrightBlast™ Ordering Information:**

Stock Code	AGB - MILXX
Key	XX - Product MIL grade (e.g. 13 for MIL13)
Stock Code	AGB - XXXX
Key	XXXX - Code for product GB grade

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 33-001

Western Australia 260 Welshpool Road Welshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099	Victoria 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199	Queensland 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	New South Wales 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	South Australia 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
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Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

### Product Description and Technical Data:

PanaCut™ is a steel abrasive produced specifically to meet the requirements of stone cutting facilities utilising gang saws for the cutting of granite blocks into slabs. The abrasive is suspended in a slurry and is continuously fed between traversing saw blades and the granite block, thus abrading away the granite. The arduous requirements of this application render standard steel grit and chilled iron grit unsuitable for the application.



PanaCut™ is manufactured from cast steel shots crushed to granular grit form and subsequently tempered to a hardness unique to granite cutting applications. PanaCut™ is produced under a controlled manufacturing process to achieve a product of uniform hardness, density and microstructure; coupled with good toughness for durability. These unique characteristics provide superior blade down speeds and decreased abrasive consumption without affecting cut slab finish or quality.

PanaCut™ is available in all size ranges conforming to SAE and JIS specifications. Standard grade materials are formulated to meet the general requirements of a typical operation cutting a wide variety of blocks.

Customised special cutting grades (with unique hardness and/or size specifications and/or mixed with shots) are also available upon request.

Our customisation program allows our customers to have the best product for their process as each stone cutting factory has its own unique characteristics depending on the gang saw equipment, cutting speed and pressure, mix of granite blocks being cut etc.

### PanaCut™ Abrasive Properties:

Hardness (HRC)	63 - 67	Micro Structure	> 85% Martensite
Shape	Angular	Total Carbon %	0.8 - 1.2
Bulk Density (Kg/m³)	3700	Silicon %	0.4 - 1.2
Particle S.G.	7.6	Manganese %	0.5 - 1.2
Colour	Silvery Grey	Sulphur %	< 0.05
Size Standard	SAE and JIS	Phosphorus %	< 0.05



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**PanaCut™ Available Sizes:**

<b>Grade</b>	PC - 12H	PC - 11H	PC - 10H	PC - 7H	PC - 4H
<b>Grade</b>	PC - 12HS	PC - 11HS	PC - 10HS	PC - 7HS	PC - 4HS
<b>Microns</b>	710 - 1400	710 - 1400	425 - 1180	300 - 1000	180 - 710
<b>Inch (.001")</b>	0.027 - 0.055	0.027 - 0.055	0.016 - 0.046	0.011 - 0.039	0.007 - 0.027

Other sizes available upon request  
 PC-H designates grit only. PC-HS designates grit with shot addition, 2-15% depending on requirements.

**PanaCut™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25 kg Bags)
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**PanaCut™ Ordering Information:**

<b>Stock Code</b>	ASA - STCPC - XXX or XXXX
<b>Key</b>	XXX - Product grade (e.g. 04H for PC-4H) XXXX - Product grade (e.g. 12HS for PC-12HS)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
 Contact Pan Abrasives for further information. Brochure reference # 34-001

<b>Western Australia</b> 260 Welshpool Road Welshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099	<b>Victoria</b> 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199	<b>Queensland</b> 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	<b>New South Wales</b> 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	<b>South Australia</b> 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
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Abrasiflex Pty Ltd ABN 42 065 145 888  
 PD Box 2133, Rockingham DC, WA 6967  
 Tel: 08 94199 9100 Fax: 089 9419 9199



### Product Description and Technical Data:

MillRite™ is used for dispersion, microcrushing and mixing of dyes, pigment, paint and magnetic materials.

The product has a high degree of roundness - greater than 85% and finds extensive applications in the manufacturing process of dyes and paints, powdered chemical blending and manufacture, selected food industries, architectural or decorative usage, etc...

MillRite™ has a high compressive strength, making it suitable for mixing of magnetic materials in ball mills and is used extensively in the resin manufacturing industries for blending of resins, pigments, etc...

It also is used for fiber filtration and chemical waste fluid filtration.

MillRite™ is chemically inert but may react to highly concentrated hydrofluoric and sulfuric acids.

### MillRite™ Abrasive Properties:

Shape	Powder
Hardness (Moh Scale)	> 6.0
Refractive Index	>1.5
Particle S.G.	2.5
Colour	White
Compressive Strength (kg/mm <sup>2</sup> )	58
<b>Typical Chemical Composition</b>	
SiO <sub>2</sub> %	> 70
CaO %	7 - 12
MgO %	1.0 - 4.5
Al <sub>2</sub> O <sub>3</sub> %	0.8 - 1.0
R2O %	13 - 15
Magnetic Particles %	< 0.1
Roundness %	> 85





**MillRite™ Available Sizes:**

Grade	JM-20	JM-30	JM-40	JM-50	JM-60	JM-70	JM-80
Size (mm)	0.85 - 1.18	1.00 - 1.40	1.40 - 2.00	1.70 - 2.40	2.00 - 3.00	2.40 - 3.40	3.00 - 4.00
Size (Mesh)	20 - 14	16 - 12	12 - 9	10 - 8	9 - 7	8 - 6	6 - 4

**MillRite™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25kg Bags)
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**MillRite™ Ordering Information:**

Stock Code	AGB-JMXX
Key	XX - Product grade (e.g.XX = 20 for JM-20)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 35-001

Western Australia 260 Welshpool Road Welshpool 6106 Tel: 08 9208 2000 Fax: 08 9208 2099 Abrasiveflex Pty Ltd	Victoria 82 Logis Boulevard Dandenong Sth 3175 Tel: 03 9565 5100 Fax: 03 9565 5199 ABN 42 065 145 888	Queensland 1/22 French Avenue Brendale Qld 4500 Tel: 07 3293 7000 Fax: 07 3293 7099	New South Wales 28 Bryant Street Padstow NSW 2211 Tel: 02 8708 5150 Fax: 02 8708 5195	South Australia 25 Wing Street Wingfield SA 5013 Tel: 08 8345 7700 Fax: 08 8345 7799
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PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

### Product Description and Technical Data:

LiteBlast™ Plastic Media is a manufactured abrasive utilised in applications requiring a controlled, gentle, non-abrading action, where damage or etching to the underlying substrate cannot be tolerated. The low hardness and specific gravity of LiteBlast™ Plastic Media allows it to be used in the most sensitive of applications. Available in 6 types of plastic stock, each one with its own differing characteristics, the most suitable LiteBlast™ Plastic Media can be selected for any given application.



LiteBlast™ Plastic Media is suitable for use in both wet and dry compressed air blasting equipment and may be used effectively at extremely low blasting pressures, to ensure no damage to the component being blasted. When used in dry compressed air blasting equipment LiteBlast™ Plastic Media is pre treated with an anti-static agent to prevent adhesion to the component and thus abrasive wastage. The high durability and irregular particle shape of LiteBlast™ ensures maximum productivity and abrasive life is achieved when utilised in equipment incorporating recycling and re-classification components.

LiteBlast™ Plastic Media is commonly used in applications where the traditional method of component cleaning is to utilise solvents and chemicals. With the inherent health risks, waste water treatment costs and environmental concerns associated with chemicals and solvents, LiteBlast™ Plastic Media offers a safe, economical and environmentally friendly alternative. No free silica is present in LiteBlast™. The use of chemicals is also non-discriminatory, due to the product being immersed. This can lead to damage or stock removal from the base material. Utilising LiteBlast™ this problem is eliminated as the abrasive is only directed at the waste product that is required to be removed.

### LiteBlast™ Abrasive Properties:

Type	I	II	III	V	VI	X	A	L
Colour	Mixed	Mixed	Mixed	Mixed	Grey	Mixed	Mixed	Mixed
Hardness (Moh)	3.0	3.5	4.0	3.5	3.0	3.2	4.0	3.5
Bulk Density (Kg/m³)	642 - 802	930 - 962	930 - 962	642 - 802	642 - 802	642 - 802	642 - 802	642 - 802
Particle S.G.	1.15 - 1.25	1.47 - 1.52	1.47 - 1.52	1.1 - 1.2	1.28 - 1.33	1.1 - 1.2	1.47 - 1.52	1.1 - 1.2
Material	Polyester	Urea Formaldehyde	Melamine Formaldehyde	Acrylic	Poly Carbonate	Themoset Acrylic	Melamine Formaldehyde	Acrylic
Size Standard	ASTM and MIL-P-85891A							



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**LiteBlast™ Available Sizes:**

Grade	8/16	12/20	16/20	16/30	20/30	20/40
Microns	1180 - 2360	850 - 1700	850 - 1180	600 - 1180	600 - 850	425 - 850
Inch (.001")	0.046 - 0.092	0.033 - 0.067	0.033 - 0.046	0.023 - 0.046	0.023 - 0.033	0.016 - 0.033

Grade	30/40	40/60	60/80	60/100	70/100	100/270
Microns	425 - 600	250 - 425	180 - 250	150 - 250	150 - 212	53 - 150
Inch (.001")	0.016 - 0.023	0.009 - 0.016	0.007 - 0.009	0.006 - 0.009	0.006 - 0.008	0.002 - 0.006

Other sizes available upon request

**LiteBlast™ Packaging:**

25 kg Bags	110 - 125kg Fibre Drum
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**LiteBlast™ Ordering Information:**

Stock Code	ALB-XYX-ZZW
Key	<p>X - Product type (I, II, III, V, VI, X, L, A)</p> <p>YY - Upper mesh size (e.g. 16 for mesh 16/20)</p> <p>ZZ - Lower mesh size (e.g. 20 for mesh 16/20)</p> <p>W - Product Grade</p> <p>    C for Commercial Grade</p> <p>    E for Electronic Grade</p> <p>    P for Special P Grade</p> <p>    W for W/O Antistatic</p>

Note - Figures may vary depending on raw materials and manufacturing processes used. Contact Pan Abrasives for further information. Brochure reference # 36-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199





# LiteBlast™ Plastic Media PA, PB & PC

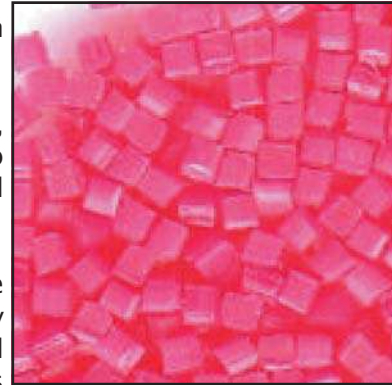
Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

## Product Description and Technical Data:

LiteBlast™ PA is a cubic shaped plastic media, which can be used for both normal and cryogenic applications.

LiteBlast™ PA is extensively used for mould cleaning, deflashing thermoset plastics and aesthetic parts. It is also used in aeronautical industries for cleaning intricate and dimension sensitive components.

LiteBlast™ PB is the smallest sized non-abrasive plastic blasting media available. LiteBlast™ PB is ideally suited for deflashing delicate and complicated shaped moulded rubber and plastic components. LiteBlast™ PB is non-toxic and it doesn't leave any post blast residue.



LiteBlast™ PC is a special purpose cryogenic blasting media stable even at very low temperatures. LiteBlast™ PC is extensively used in high speed wheel blast machines for deflashing rubber components like o-rings, bushing, oil seals, gaskets, syringe stoppers, spark plug boots etc.

LiteBlast™ PC is long lasting, non toxic and non-damaging to both the part that is being deflashed and the blasting equipment. It is also very widely used for deflashing thermoset plastic parts and machined intricate diecast components.

## LiteBlast™ Abrasive Properties:

Type	PA	PB	PC
Chemical Material	Polyamide / Nylon	Polystyrene	Polycarbonate
Unique Property	Stable at cryogenic temperatures and non abrasive	Non abrasive	High density and stable at cryogenic temperatures
Media Form / Shape	Cubical	Spherical	Cylindrical



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**LiteBlast™ Available Sizes:**

Grade	PA 20	PA 30	PA 40	PA 60	PA 70
Microns	500 x 500 x 500	750 x 750 x 750	1000 x 1000 x 1000	1500 x 1500 x 1500	1780 x 1780 x 1780
Inch (.001")	0.20 x .020 x .020	.030 x .030 x .030	.039 x .039 x .039	.059 x .059 x .059	.070 x .070 x .070
Diagonal In Microns	870	1320	1750	2640	3070

Grade	PB 1	PB 2	PB 3
Microns	610 - 990	360 - 610	150 - 360
Inch (.001")	.024 - .039	.014 - .024	.006 - .014

Grade	PC 20	PC 30	PC 45	PC 60	PC 70	PC 80
Microns	500 x 500	750 x 750	1140 x 1140	1500 x 1500	1780 x 1780	2000 x 2000
Inch (.001")	.020 x .020	.030 x .030	.045 x .045	.059 x .059	.070 x .070	.079 x .079

**LiteBlast™ Packaging:**

25kg Bags / Boxes
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**LiteBlast™ Ordering Information:**

Stock Code (Typr PA)	ALB-PA-XX
Key	XX - Product grade (e.g. 20 for PA 20)
Stock Code (Typr PB)	ALB-PB-X
Key	X - Product grade (e.g. 1 for PB 1)
Stock Code (Typr PC)	ALB-PC-XX
Key	XX - Product grade (e.g. 20 for PC 20)

Note - Figures may vary depending on raw materials and manufacturing processes used. Contact Pan Abrasives for further information. Brochure reference # 36-002

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Abrasiflex Pty Ltd ABN 42 065 145 888

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
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South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199





# PaintMix™ Line Marking Beads

Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

### Product Description and Technical Data:

PaintMix™ is used for road marking and striping highways and runways the world over. Its usage results in much better visibility of the traffic markings and road signs leading to safer night driving conditions.

Beads with higher refractive index are used for road safety signs.

PaintMix™ is available in three types - Drop On (Type D), Intermix (Type N) and Premix (Type P). PaintMix™ Type P and N beads are mixed with the paint prior to the striping of the roads.



As the paint layers wear, the beads are exposed, giving enhanced visibility to road markings. PaintMix™ Type D beads are dropped on the freshly striped paint surfaces on the roads to give immediate enhanced visibility to night drivers. Normally all the three PaintMix™ Type N, D and P beads are used in conjunction with each other.

PaintMix™ Type D beads are available in three versions - normal, moisture-proof and flotation types.

### PaintMix™ Abrasive Properties:

Roundness	> 80 %	SiO <sub>2</sub> %	> 70
Hardness (Moh Scale)	5.5 - 6.0	CaO + MgO %	> 8
Bulk Density (Kg/m <sup>3</sup> )	1600	Na <sub>2</sub> O + K <sub>2</sub> O + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub> %	< 18
Particle S.G.	2.5	Quartz (Free Silica) %	< 0.5
Hue / Tint	Clear	Magnetic Particles %	< 0.1
		Size Standard	ASTM

Refractive Index	
Normal	> 1.5
Runways / Highway signs	> 1.9



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**PaintMix™ Available Sizes:**

Grade	Type D	Type N	Type P
Microns	150 - 600	425 - 1180	75 - 150
Inch (.001")	0.006 - 0.023	0.017 - 0.047	0.003 - 0.006

**PaintMix™ Packaging:**

25 kg Bags	1 Tonne Pallet (40 x 25 kg Bags)
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**PaintMix™ Ordering Information:**

Stock Code (Type D)	AGB - T1503
Stock Code (Type N)	AGB - INTERMIX
Stock Code (Type P)	AGB - PREMIX

Note - Figures may vary depending on raw materials and manufacturing processes used. Contact Pan Abrasives for further information. Brochure reference # 37-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199





## Silica Sand

Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

### *Product Description and Technical Data:*

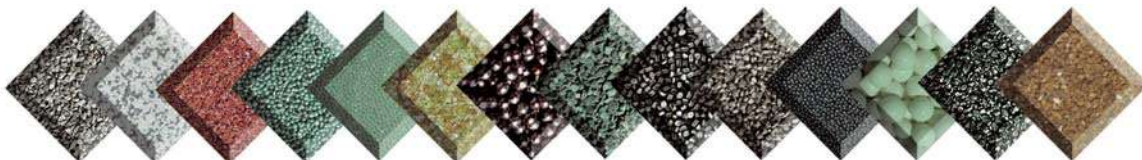
Silica Sand is an economical granular abrasive product. It has many viable applications including use as a water filtration media, as an antiskid compound mix, as a plastering compound mix and also occasionally for water jet blasting.

Due to its low cost, some people use silica sand for abrasive blasting (hence the original term sand blasting). However, use of silica sand for abrasives blasting poses severe and often fatal, long term operator health risks, even with the use of operator safety equipment.

*Pan Abrasives does not recommend the use of silica sand for any abrasive blasting applications.*

*All data provided herein is for information/comparison purposes only.*

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads





**Silica Sand Abrasive Properties:**

Colour	Brown to Off-White	Typical Chemical Composition	
Bulk Density (kg/m <sup>3</sup> )	Approx. 1500	SiO <sub>2</sub> %	> 98
Particle S.G.	2.65	Fe <sub>2</sub> O <sub>3</sub> %	Max. 0.08
Hardness (Moh Scale)	5.0 - 6.0	Al <sub>2</sub> O <sub>3</sub> %	Max. 0.8

**Silica Sand Available Sizes:**

Grade	10/20	20/40	20/80	40/80
Microns	850 - 1000	450 - 850	180 - 850	180 - 450

**Silica Sand Packaging:**

50kg Bags
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**Silica Sand Ordering Information:**

Stock Code	AOT-AOSSXX-YY
Key	XX - Upper mesh size (e.g. XX = 10 for mesh 10/20) YY - Lower mesh size (e.g. YY = 20 for mesh 10/20)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 38-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
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Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

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Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199





# HardCut™ Silicon Carbide

Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

## Product Description and Technical Data:

HardCut™ Silicon Carbide is an extremely hard, sharp and aggressive abrasive. It is formed inside electric furnaces, at a temperature of 2200°C and produced from quartz and petroleum coke. It is chemically stable, has high resistance to oxidation and is also unaffected by acids and will only react to alkali at very high temperatures. As an abrasive, it is surpassed in hardness only by diamond, cubic boron nitride and boron carbide.

Being so hard HardCut™ is extremely fast cutting and can be used to clean and etch very hard surfaces that would otherwise not be possible with any other softer abrasives. Products manufactured from Tungsten Carbide may also be cleaned with HardCut™.

HardCut™ is harder and sharper than Aluminium Oxide but is more friable, therefore prone to breaking down at a faster rate.

HardCut™ is available in 2 types, HardCut™ Type G and HardCut™ Type B.

Type G is the purest form of commercially available Silicon Carbide. It is used in many applications ranging from blast cleaning and glass etching, manufacture of bonded and coated abrasives through to refractory and ceramic applications. It is most suited for surface finishing non-ferrous materials such as cemented carbides, optical glass and ceramics.

Type B is used for surface finishing applications requiring a fast cutting action without leaving any ferrous residue on the blast surface. It is also extensively used in the manufacture of coated and bonded abrasives (e.g. sand paper, grinding stones and wheels), in refractory products and for glass etching.

## HardCut™ Abrasive Properties:

Shape	Angular	Typical Chemical Composition						
			Type B			Type G		
Hardness (Moh)	9.15							
Bulk Density (Kg/m³)	1760	Grade	12 - 90	100 - 180	220 - 240	12 - 90	100 - 180	220 - 240
Particle S.G.	3.2	SiC %	> 98.5	98	97	> 99	98.5	97.5
Colour	Type B - Crystalline Black	FC %	< 0.2	< 0.3	< 0.3	< 0.2	< 0.25	< 0.25
	Type G - Semi Transparent Dark Green							
Size Standard	ASTM	Fe <sub>2</sub> O <sub>3</sub> %	< 0.6	< 0.8	< 1.2	< 0.2	< 0.5	< 0.7



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**HardCut™ Available Sizes:**

Grade	Microns	Inch (.001")	Grade	Microns	Inch (.001")	Grade	Microns	Inch (.001")	Grade	Microns	Inch (.001")
4	4750-5600	.187-.22	14	1400-1700	.055-.066	40	425-500	.016-.019	100	125-150	.005-.006
5	4000-4750	.157-.187	16	1180-1400	.046-.055	46	355-425	.013-.016	120	106-125	.004-.005
6	3350-4000	.131-.157	20	1000-1180	.039-.046	54	300-355	.011-.013	150	75-106	.003-.004
7	2800-3350	.11-.131	22	850-1000	.033-.039	60	250-300	.009-.011	180	63-90	.0025-.0035
8	2360-2800	.092-.11	24	710-850	.027-.033	70	212-250	.008-.009	220	53-75	.002-.003
10	2000-2360	.078-.092	30	600-710	.023-.027	80	180-212	.007-.008	240	45-53	.001-.002
12	1700-2000	.066-.078	36	500-600	.019-.023	90	150-180	.006-.007			

**HardCut™ Packaging:**

25kg Bags	1 Tonne Pallet (40 x 25 kg Bags)
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**HardCut™ Ordering Information:**

Stock Code	AOT-SCXXX
Key	XXX - Mesh size (e.g. XXX = 008 for mesh 8)

Note - Figures may vary depending on raw materials and manufacturing processes used. Contact Pan Abrasives for further information. Brochure reference # 39-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
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25 Wing Street  
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PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com - Email: pagroup@pan-abrasives.com

### Product Description and Technical Data:

SoluBlast™ Sodium Bicarbonate is a water-soluble, environmentally friendly abrasive, suitable for open blasting applications where reduced operating dust levels and ease of waste disposal are essential. SoluBlast™ is also an alternative to environmentally damaging, traditional chemical paint strippers to remove coatings from delicate substrates.

SoluBlast™ may be used as a dry blasting media or as a wet blasting media by injecting water into the air stream. In a wet blast cleaning application, there is the additional benefit of chemical cleaning via the addition of degreasers, anti-rust compounds, etc..



The water also assist in cleaning by providing a hydraulic action. In such combined applications, oil and grease residue are removed easily in a single blast process. When used in applications such as plant maintenance, SoluBlast™ will not damage parts such as seals, bearings, shafts, pumps etc.. Being water soluble, clean up and waste disposal after blasting with SoluBlast™ is reduced to a minimum.

SoluBlast™ can also be used in dry/wet blast applications where gentle-blasting action is required. Removal of paint/coatings from soft substrates such as fibreglass, plastic, wood, brick, brass, aluminium, concrete etc. can be achieved with SoluBlast™ without damage to the underlying part. It is also possible to gently remove paint coatings one layer at a time without damaging the underlying layer if required.

### SoluBlast™ Abrasive Properties:

Shape	Angular Shape to Granular Powder	Ph (1% Solution)	8.4
Hardness (Moh)	3.0	NaHCO <sub>3</sub>	99 - 100 % max
Bulk Density (Kg/m <sup>3</sup> )	I = 1099, C = 1103	Chloride	0.015 % max
Particle S.G.	2.25	Sulphate	0.015 % max
H <sub>2</sub> O Insoluble (Maintenance Grade)	< 1 %	H <sub>2</sub> O Insoluble (Profile Grade)	10 to 15 %
Size Standard	ASTM	Colour	Grey, White



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**SoluBlast™ Available Sizes:**

Grade	Solublast 300	Solublast 260	Solublast 220	Solublast 150	Solublast 125	Solublast 90
Microns	300	260	220	150	125	90
Inch (.001")	0.0118	0.0102	0.0086	0.0059	0.0049	0.0035
ASTM Mesh	48	58	63	100	120	170

**SoluBlast™ Packaging:**

50lb Bags	56Bags (2800lbs) per Pallet
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**SoluBlast™ Ordering Information:**

Stock Code	AOT-SOLUBLASTXXX
Key	XXX - Product Grade (e.g. 220 for 220 micron)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 40-001

Western Australia 260 Welshpool Road  
Whelshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria 82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland 1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
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New South Wales 28 Bryant Street  
Padstow NSW 2211  
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Fax: 02 8708 5195

South Australia 25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



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**Product Description and Technical Data:**

SatinBlast™ Stainless Steel Shot is one of the longest lasting most durable abrasives available. Produced from 300 Series Cast Stainless Steel, SatinBlast™ will provide repeatable, consistent performance for thousands of cycles, a critical factor when using for shot peening purposes.

During use, and because of the continuous impacting, SatinBlast™ will work harden itself, its internal structure changing from austenitic to martensite. This transformation enables SatinBlast™ to withstand up to 5000 impacts.



As produced, SatinBlast™ has a hardness of approximately 200 HV. With continuous use the hardness will increase to approximately 530 HV after 2000 cycles. Due to its exceptionally low break down rate, virtually no dust is produced from the abrasive itself.

The high density of SatinBlast™, along with it not shattering on impact, also delivers very high impact energies to the work piece, resulting in faster cleaning rates.

SatinBlast™ is used for applications where residue on the blasted component is undesirable and/or when a very bright surface finish is required. The abrasive will leave no ferrous residue or staining on the work piece. SatinBlast™ is widely used on magnesium, aluminium, nickel and chromium based alloy components and other non-ferrous parts.

**SatinBlast™ Abrasive Properties:**

Shape	Round	Size Standard	ASTM
Hardness (HV) New / Unused	300	Chromium %	16 - 20
Hardness (HV) Approx. 2000 Cycles	450	Nickel %	12 - 14
Bulk Density (kg/m³)	4500	Silicon %	< 3
Particle S.G.	> 7.0	Manganese %	< 2
Colour	Silver Grey	Carbon %	< 0.25



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**SatinBlast™ Available Sizes:**

<b>Grade</b>	<b>S040</b>	<b>S070</b>	<b>S110</b>	<b>S170</b>	<b>S230</b>
<b>Microns</b>	45 - 250	75 - 425	150 - 600	425 - 1000	600 - 1180
<b>Inch (.001")</b>	0.002 - 0.009	0.003 - 0.016	0.006 - 0.023	0.016 - 0.039	0.023 - 0.046
<b>Grade</b>	<b>S280</b>	<b>S390</b>	<b>S460</b>	<b>S660</b>	<b>S780</b>
<b>Microns</b>	710 - 1400	850 - 1700	850 - 2000	1180 - 2800	1700 - 4000
<b>Inch (.001")</b>	0.028 - 0.055	0.033 - 0.067	0.033 - 0.078	0.046 - 0.110	0.067 - 0.157

Other sizes available upon request

**SatinBlast™ Packaging:**

20kg Plastic/Metal Containers	25kg Poly Bags
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**SatinBlast™ Ordering Information:**

<b>Stock Code</b>	AOT-OASBXXXX
<b>Key</b>	XXXX - Product Grade (e.g. S110 for S110)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 41-001

Western Australia  
260 Welshpool Road  
Whelshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
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New South Wales  
28 Bryant Street  
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Tel: 02 8708 5150  
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South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
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Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

### Product Description and Technical Data:

PanaGrit™ is manufactured from high carbon cast PanaShot™ steel shots, crushed to granular grit form and subsequently tempered to three different hardnesses (GH, GL and GP) to cater for different applications.

After tempering the grit is mechanically screened to produce 10 grades conforming to SAE standard specifications for blasting grits.

Grades of differing sizes and/or hardnesses specifically for specialised applications, i.e. roll etching, granite cutting are also produced.

PanaGrit™ is produced under a controlled manufacturing process to achieve a product of uniform hardness, density and microstructure; coupled with good toughness for durability.

These factors result in an abrasive of correct hardness and shape to perform its cleaning function as well as an extended abrasive life.

PanaGrit™ is widely used as a media for descaling steel components prior to coating. In this application the media is used almost exclusively in compressed air, recovery blast rooms. The angular shape and relative hardness of PanaGrit™ ensures rapid cleaning rates and excellent recyclability.

PanaGrit™ is also widely used in the foundry casting industry to remove sand from castings when the castings have been exposed to ultra high temperatures and the sand is baked on to such an extent that steel shot cannot remove it.

If steel components cannot be cleaned utilising centrifugal wheel airless blasting equipment and steel shot, PanaGrit™ offers the next viable alternative.



SAE G14



SAE G16



SAE G18



SAE G25



SAE G40



SAE G50

\* Images for comparison purposes only

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads



### SAE Steel Grit Size Specifications:

Screen opening sizes and screen numbers with max. and min. cumulative percentage allowed on corresponding screens.

Screen No.	Screen Size (In)	Metric Size (mm)	SAE Grit Number									
			G10	G12	G14	G16	G18	G25	G40	G50	G80	G120
7	0.1110	2.80	0 %									
8	0.0937	2.36		0 %								
10	0.0787	2.00	80 %		0 %							
12	0.0661	1.70	90 %	80 %		0 %						
14	0.0555	1.40		90 %	80 %		0 %					
16	0.0469	1.18			90 %	75 %		0 %				
18	0.0394	1.00				85 %	75 %		0 %			
20	0.0331	0.850										
25	0.0280	0.710					85 %	70 %		0 %		
30	0.0232	0.600										
35	0.0197	0.500										
40	0.0165	0.425						80 %	70 %		0 %	
45	0.0138	0.355										
50	0.0117	0.300							80 %	65 %		0 %
80	0.0070	0.180								75 %	65 %	
120	0.0049	0.125									75 %	60 %
200	0.0029	0.075										70 %

### PanaGrit™ Abrasive Properties:

<b>Hardness (HRC)</b> GP GL GH	46 - 50 56 - 60 Min 60	<b>Microstructure</b> GP GL GH	Martensite and Bainite Martensite and Bainite Martensite and Austenite
<b>Shape</b>	Angular	<b>Carbon %</b>	0.8 - 1.2
<b>Bulk Density (Kg/m³)</b>	3700	<b>Silicon %</b>	0.4 - 1.2
<b>Particle S.G.</b>	> 7.6	<b>Manganese %</b>	0.5 - 1.2
<b>Colour</b>	Grey, Silver, Blue	<b>Sulphur %</b>	< 0.05
<b>Size Standard</b>	SAE	<b>Phosphorus %</b>	< 0.05

### PanaGrit™ Packaging:

25kg Bags	1 Tonne Pallet (40 x 25 kg Bags)
600 - 1000kg Drum	

### PanaGrit™ Ordering Information:

<b>Stock Code</b>	ASA-STGXXXXYZ
<b>Key</b>	XXX - Product SAE Number (e.g. 018 for SAE G18) YY - Product Hardness GH, GL and GP Z - D for packing in Drums Blank for standard packing

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 42-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
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Tel: 08 94199 9100 Fax: 089 9419 9199



Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

### Product Description and Technical Data:

PanaShot™ is manufactured by melting high quality steel scrap, that is subsequently atomised by pouring streams of the molten steel through high-pressure water jets.

The resultant shots are then homogenised by reheating and then subsequently refined during quenching.

The shots are then dried and reheated in a tempering furnace to produce the applicable hardness. The tempered shots are then mechanically screened to produce 11 grades conforming to SAE standard specifications for blasting shots.

Grades of differing sizes and/or hardnesses specifically for specialised applications, i.e. shot peening are also produced.

PanaShot™ is produced under a controlled manufacturing process to achieve a product of uniform harness, density and microstructure; coupled with good toughness for durability.

These factors result in abrasive of sufficient hardness to perform its cleaning function as well as an extended life.

PanaShot™ is widely used as a media for descaling steel components prior to coating. In this application the media is used almost exclusively in centrifugal wheel airless blasting equipment.

The round shape and relative softness of PanaShot™ ensures excessive wear is not imparted on the equipment.

PanaShot™ is also widely used in the foundry casting industry to remove sand from castings after removal from the mould.

When used in conjunction with the appropriate equipment, PanaShot™ is the ultimate abrasive blast media for steel cleaning or preparation due to its durability.

\* Images for comparison purposes only



SAE S780

SAE S660

SAE S550

SAE S460

SAE S390



SAE S110



SAE S170



SAE S230



SAE S280



SAE S330

Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

### SAE Steel Shot Size Specifications:

Screen opening sizes and screen numbers with max. and min. cumulative percentage allowed on corresponding screens.

Screen No.	Screen Size (In)	Metric Size (mm)	SAE Shot Number											
			S780	S660	S550	S460	S390	S330	S280	S230	S170	S110	S070	
7	0.1110	2.80	0 %											
8	0.0937	2.36		0 %										
10	0.0787	2.00	≥ 85 %		0 %	0 %								
12	0.0661	1.70	≥ 97 %	≥ 85 %		≤ 5 %	0 %							
14	0.0555	1.40		≥ 97 %	≥ 85 %		≤ 5 %	0 %						
16	0.0469	1.18			≥ 97 %	≥ 85 %		≤ 5 %	0 %					
18	0.0394	1.00				≥ 96 %	≥ 85 %		≤ 5 %	0 %				
20	0.0331	0.850					≥ 96 %	≥ 85 %		≤ 10 %	0 %			
25	0.0280	0.710						≥ 96 %	≥ 85 %		≤ 10 %			
30	0.0232	0.600							≥ 96 %	≥ 85 %		0 %		
35	0.0197	0.500								≥ 97 %		≤ 10 %		
40	0.0165	0.425									≥ 85 %		0 %	
45	0.0138	0.355									≥ 97 %		≤ 10 %	
50	0.0117	0.300										≥ 80 %		
80	0.0070	0.180										≥ 90 %	≥ 80 %	
120	0.0049	0.125											≥ 90 %	

### PanaShot™ Abrasive Properties:

Shape	Round, Spherical	Carbon %	0.8 - 1.2
Hardness (HRC)		Silicon %	0.4 - 1.2
Standard	40 - 50		
Peening (Regular)	45 - 52		
Special (Hard)	55 - 62		
Bulk Density (Kg/m³)	4450	Manganese %	0.5 - 1.2
Particle S.G.	> 7.4	Sulphur %	< 0.05
Colour	Grey, Silver	Phosphorus %	< 0.05
Size Standard	SAE	Microstructure	Martensite and Bainite

### PanaShot™ Packaging:

25kg Bags	1 Tonne Pallet (40 x 25 kg Bags)
600 - 1000kg Drum	

### PanaShot™ Ordering Information:

Stock Code	ASA - STSXXX
Key	XXX - Product SAE Number (e.g. 110 for SAE S110) Y - Blank for Standard SAE Grade P for Peening Grade (45 - 52 HRC) L for Peening Grade (55 - 62 HRC) D for packing in Drums

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 43-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
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PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com) - Email: [pagroup@pan-abrasives.com](mailto:pagroup@pan-abrasives.com)

**Product Description and Technical Data:**

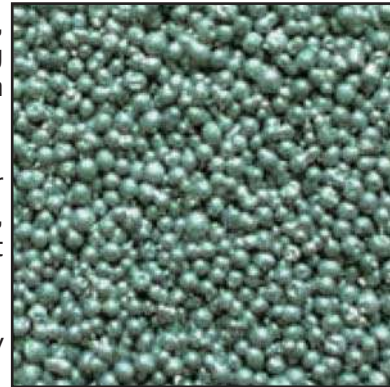
CleanBlast™ Zinc Shot is a soft metallic abrasive, used primarily in the die-casting and gravity casting industries for the deburring and deflashing of aluminium and zinc alloy castings.

CleanBlast™ Zinc Shot is an ideal abrasive for blasting corrosion resistant steels and non-ferrous products, when the risk of ferrous contamination to the surface cannot be tolerated.

CleanBlast™ Zinc Shot is manufactured from virtually pure zinc. This enables it to be used in applications where there is a high risk of explosion if an aluminium shot were to be used. This is typically applicable when deflashing aluminium components with aluminium shot. The high volume of dust generated can lead to an explosive atmosphere. Aluminium shot is approximately 10 times more explosive than CleanBlast™ Zinc Shot, so the use of CleanBlast™ Zinc Shot greatly reduces the risk of explosion.

CleanBlast™ Zinc Shot is approximately 2.5 times denser than aluminium shot. This feature permits CleanBlast™ Zinc Shot to be used for deflashing or deburring components that would ordinarily not be deflashed or deburred adequately with aluminium shot. The high density of CleanBlast™ Zinc Shot enables it to remove burrs up to 40% in size of the shot's diameter.

CleanBlast™ Zinc Shot will remove burrs 0.5mm thick, whilst an equivalently sized aluminium shot will remove a burr only 0.3mm thick.



**CleanBlast™ Abrasive Properties:**

Shape	Spherical	Size Standard	ASTM
Hardness (HV)	35 - 55	Zinc %	> 99.0
Bulk Density (kg/m³)	4,200	Lead %	< 0.007
Particle S.G.	7.1	Iron %	< 0.005
Colour	Grey	Cadmium %	< 0.004



Plastic Media - Nutshell - Aluminium Oxide - Glass Beads - Crushed Glass - Garnet - Chilled Iron - Steel Grit - Steel Shot - Ceramic Beads

**CleanBlast™ Available Sizes:**

Grade	AZ - 20	AZ - 15	AZ - 12	AZ - 10
Microns	1410 - 3360	1000 - 2000	710 - 1410	590 - 1000
Inch (.001")	0.055 - 0.13	0.039 - 0.078	0.028 - 0.055	0.02 - 0.039

Grade	AZ - 08	AZ - 06	AZ - 04
Microns	500 - 1000	350 - 840	297 - 710
Inch (.001")	0.019 - 0.039	0.013 - 0.033	0.011 - 0.028

Other sizes available upon request

**CleanBlast™ Packaging:**

20kg Bags	500kg Steel Drum (25 x 20 kg Bags)
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**CleanBlast™ Ordering Information:**

Stock Code	AAL - 0AZCSXX
Key	XX - Product Grade (e.g. 06 for AZ - 06)

Note - Figures may vary depending on raw materials and manufacturing processes used.  
Contact Pan Abrasives for further information. Brochure reference # 44-001

Western Australia  
260 Welshpool Road  
Welshpool 6106  
Tel: 08 9208 2000  
Fax: 08 9208 2099

Victoria  
82 Logis Boulevard  
Dandenong Sth 3175  
Tel: 03 9565 5100  
Fax: 03 9565 5199

Queensland  
1/22 French Avenue  
Brendale Qld 4500  
Tel: 07 3293 7000  
Fax: 07 3293 7099

New South Wales  
28 Bryant Street  
Padstow NSW 2211  
Tel: 02 8708 5150  
Fax: 02 8708 5195

South Australia  
25 Wing Street  
Wingfield SA 5013  
Tel: 08 8345 7700  
Fax: 08 8345 7799

Abrasiflex Pty Ltd ABN 42 065 145 888

PO Box 2133, Rockingham DC, WA 6967  
Tel: 08 94199 9100 Fax: 089 9419 9199



