

SINTERBALL AND SINTERBLAST

a Revolution in Jetblasting

SINTERBALL: Fused bauxite in grains of **spherical** shape.

1. TECHNICAL INFORMATION:

*SINTERBALL: Resistant and hard spherical aluminium oxide, produced from selected minerals using a unique pelletization and fusing process.

2. Physical Properties:

Density:	2.24 g/cm ³
Apparent density:	3.62 g/cm ³
Hardness (Mohs scale):	9
Resistance to compression:	Max. 5.1% fines at 875 kg/cm ² (12,500 psi)
Colour:	Black

MINERALOGICAL:	Alpha-Alumina (Corundum):	Predominant
	Mulite:	Secondary
	Hematite:	Secondary
	Free iron and Silica:	None

3. Chemical Composition:

Al ₂ O ₃ (Aluminium Oxide):	76.5%
Fe ₂ O ₃ (Iron Oxide):	15.5%
SiO ₂ (Silicon Oxide):	5.3%
TiO ₂ (Titanium Oxide):	1.8%
CaO+MgO (Calcium + Magnesium):	0.83%
K ₂ O+Na ₂ O (Sodium + Potassium):	0.4%
Cr ₂ O ₃ (Chrome Oxide):	0.01% Max.
Extractable Lead:	Not Detected
Free Iron	None
Free Silica	None

4. Sizes

8/16,
12/20,
18/30,
20/40 and
40/70



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SINTERBLAST: Fused bauxite in grains of **angular** shape.

5. TECHNICAL INFORMATION:

*SINTERBLAST: Resistant and hard angular aluminium oxide, produced from selected minerals using a unique pelletization and fusing process.

6. Physical Properties:

	Density:	2.00 g/cm ³
	Apparent density:	3.60 g/cm ³
	Hardness (Mohs scale):	9
	Resistance to compression:	Max. 21% fines at 535 Kg/cm ² (7,500 psi)
	Colour:	Black
MINERALOGICAL:	Alpha-Alumina (Corundum):	Predominant
	Mulite:	Secondary
	Hematite:	Secondary
	Free iron and Silica:	None

7. Chemical Composition:

Al ₂ O ₃ (Aluminium Oxide):	76.0%
Fe ₂ O ₃ (Iron Oxide):	15.4%
SiO ₂ (Silicon Oxide):	5.9%
TiO ₂ (Titanium Oxide):	1.6%
CaO+MgO (Calcium + Magnesium):	0.50%
K ₂ O+Na ₂ O (Sodium + Potassium):	0.4%
Cr ₂ O ₃ (Chrome Oxide):	0.01% Max.
Extractable Lead:	Not Detected
Free Iron	None
Free Silica	None

8. Sizes

8/16,
12/20,
20/40
40/70
60/120 and
120/180



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9. OPERATIONAL DATA:

Pressure of compressed air:	Maximum 80 psi
Distance from nozzle to surface:	400/500 mm
Blast Angle:	45o
Blasting Speed:	higher
Blasting	as if painting
Colour of blasted surface	Opaque dark grey

10. CRITICAL POINTS:

The following points should always be observed:

- Pressure of compressed air
- Cleaning of abrasive
- Finishing
- Ventilation
- Longitudinal
- High exhaust Hood

11. STRONG POINTS:

- Does not contain free silica
- Does not contain free iron
- Reduced generation of dust in comparison with certain other abrasives
- Does not clump as a result of moisture
- Higher productivity – using a 3/8” nozzle at a pressure of 80 psi Gau A and B
- Lower maintenance cost of the mechanical components in the jetblasting equipment.
- Less tiresome for the operator
- Reduced consumption of compressed air: 40%
- Ease of handling
- Large number of granulometric ranges, two shapes available, enabling multiple combinations.

12. MAIN APPLICATIONS:

1 – Removal of Paint

Epoxy	60%	SinterBlast # 12/20
	40%	SinterBall # 12/20
Coal Tar (Pitch)	70%	SinterBlast # 8/16
	30%	SinterBall # 12/20
Primer	50%	SinterBlast # 20/40
	50%	SinterBall # 12/20

2- Preparation of Surfaces before Painting: Grade SA 2½ A and B Finish

Examples:	40 micron	
	40%	SinterBlast # 20/40
	60%	SinterBall # 12/20
	80 micron	
	50%	SinterBlast # 12/20
	50%	SinterBall # 12/20
	140 micron	
	60%	SinterBlast # 8/16
	40%	SinterBall # 12/20

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3- Vulcanization of rubber on metal

Pressure cabinet: SinterBlast # 8/16
SinterBlast # 12/20

Suction Cabinet: SinterBlast # 20/40
SinterBlast # 40/70
SINTERBLAST # 60/120

4- Precision Casting

Jetblasting equipment using compressed air: SinterBall # 35/70

5- Casting

Mainly non-ferrous metals: SinterBall # 12/20

6- Resin Parts

Ex.: - Bus components: SinterBlast # 40/70
- Rarely: SinterBlast # 60/120

7- Screws – Suction-type Jetblasting Equipment

Jet blasting before Dichromate 35: SinterBlast # 120/180

8- Teflon Coating

- Pressure-type Jetblasting Equipment: SinterBlast # 20/40
SinterBlast # 40/70

- Suction-type Jetblasting Equipment: SinterBlast # 40/70
SinterBlast # 60/120

9- Glass – Decoration

SinterBlast # 120/180
SinterBlast # 60/120
SinterBlast # 40/70 – Rarely

10- Metallic Structures

50% - SinterBlast # 12/20
50% - SinterBall # 12/20

11- Stainless Steel

SinterBall # 35/70
SinterBlast # 60/120

NOTE: The surface will darken.

12- Zinc Coating

We do not recommend SinterBall or SinterBlast for this application.

13- Motor Blocks in Aluminium

We do not recommend SinterBall or SinterBlast for this application

14- Metallization – SA 3

Pressure-type Jet blasting Equipment SinterBlast # 8/16
SinterBlast # 12/20
SinterBlast # 20/40
SinterBlast # 40/70

