

PLATINUM GRIT BLASTING ABRASIVE

TRADE NAME

BLASTRITE® Platinum Grit

DESCRIPTION

Blastrite® Platinum Grit is an SSPC-AB 1 certified abrasive, generically referred to as a synthetic magnesium iron silicate. This specially selected and graded SSPC-Type II abrasive with sharp angular particles, black in colour, is particularly resistant to fracturing on impact.

FUNCTION

Blastrite® Platinum Grit is used where expendable abrasives are required for onsite abrasive blasting in shipyards, steel construction, oil refineries, power stations, offshore oil rigs and any blasting yard designed for diverse and flexible applications. The product is specially graded to optimise production whilst achieving designated surface preparation standards according to industry norms.

TYPICAL CHEMICAL ANALYSIS

SiO ₂	<0.15% (crystalline silica)
SiO ₂	40 - 50% (amorphous form)
Fe ₂ O ₃	15 - 35%
MgO	15 - 25%
Al ₂ O ₃	5 - 10%
CaO	5 - 10%
Cr ₂ O ₃	1 - 5%

TECHNICAL DATA

Hardness	6 - 7 Moh scale	(Rockwell Hardness: 68HRC)
Specific gravity	3	(ASTM C128-15)
Loose bulk density	≈ 1.84 g/cm ³	(ASTM D7481-09)
Crystalline silica	< 0.15%	(NIOSH 7602)
Conductivity	<150 μS/cm	(ASTM D4940-98-15e1)
% Chlorides	<1%	(ASTM D512-04)
pH (1% Solution)	6.13	(ASTM E70-07(15))
Moisture content	<0.05%	(ASTM C566-13)
Oil content	None	(ASTM D7393-16)
Asbestos content	None	
Storage	Dry, sheltered storage conditions	
Packaging	1.5 tonne Bulk bags or unitised 25kg (55lbs) bags	

SIEVING RANGE



PRODUCT CODE	MEAN PRODUCT SIZE RANGE (mm)	AVE BLAST PROFILE (micron)*	SSPC PROFILE GRADES
B125	0.4 – 2.5	145-195	N/A
B100	0.25 – 2	100-140	N/A
B90-SSPC	0.2 – 1.2	82-110	Grades 4 & 5
B60-SSPC	0.12 – 0.6	58-76	Grades 3 & 4
B40-SSPC	0.1 – 0.6	38-54	Grades 2 & 3

* Blast profiles achieved as per SSPC-AB-1, para 4.1.8

* Blast profiles were achieved at 6 bar & 7 bar nozzle pressure, at a 400mm stand-off distance and at 70° -80° angle to the substrate

