



Saudi Abrasives

www.saudiabrasives.com

INTRODUCTION

SA Grit is a **calcium silicate** blast cleaning abrasive processed from natural minerals by the Saudi Abrasives factory. The **SA** in SA Grit proudly stands for Saudi Arabia where it is found, and it also refers to ISO surface preparation standards. It easily achieves SA-3 finish, as well as SA-2 1/2, SA-2, and can also be used for sweep blasting.

SA Grit is a tough, clean and economical abrasive with less than 1% free silica. Its unique angular shape and hardness quickly cuts away any existing coatings.

FEATURES

- Economical
- Less than 1% free silica
- Does not react with coatings
- Reduces coating failure
- Does not attract moisture
- Allows fast and easy clean up
- Angular shape to cut through coatings with high productivity, surface cleanliness and surface profile.
- Free of chlorides and other salts

PHYSICAL PROPERTIES

Sp. Gravity	:	2.7
Hardness	:	7moh
Grain shape	:	sharp and angular
Colour	:	brown / black
Chloride	:	<15ppm

PACKING

- Normally supplied in bulk bags with polythene liners each containing 2 tonne.
- Also available as 50 kg paper bags and is normally supplied palletised in units.

CHEMICAL ANALYSIS

Calcium Oxide	:	25 - 35%
Silicates	:	48 - 52%
Aluminium oxide	:	8 - 14 %
ferric oxide	:	6 - 10%
Pottassium oxide	:	1 - 5 %
magnesium oxide	:	2 - 5 %
total alkalines	:	2 - 5 %

The chemical constituents of **SAGRIT** contains less than 1% silica and such presents minimal health hazard. **SAGRIT** is non magnetic, non electricity conducting, non hygroscopic, non inflammable. **SAGRIT** is chemically inert and its residues will not react with any treated surface.

PHYSICAL DATA

Physical Form	:	Angular granules
Specific Gravity	:	2.7
Hardness	:	7Moh
Bulk density	:	1.6 kg/dm ³
Melting Temperature	:	> 1250° C
Chloride	:	< 15ppm
Color	:	Brown / black
Evaporation Rate	:	N/A
Water Solubility	:	Negligible
Odor	:	None

SA Grit the Ultimate in Expendable Abrasives for all your Blasting needs

Product No.	Size Range (mm)	Cleanliness Standard	Surface Profile Average, Microns	Application
SA GRIT 0307	0.3 - 0.7	SA3/SP5	50 - 70	Blast cleaning on new steel, and on delicate substrates when a smooth finish is required.
SA GRIT 0710	0.7 - 1.0	SA3/SP5	90 - 110	General blast cleaning on structural steel work, pipes, tanks for achieving a moderate profile.
SA GRIT 1015	1.0 - 1.5	SA3/SP5	140+	For the tough blasting job and also when a coarse profile is required for shipyards, marine structures, tanks and pipes.

SECTION II – PRODUCT COMPOSITION

Component	Normal Composition (WT %) Range	OSHA PEL (mg/m ³)
Silicon Dioxide (SiO ₂)	42-50%	$\frac{80 \text{ mg/m}^3}{\% \text{SiO}_2}$
Free Silica	<1%	$\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ (Respirable Dust)
Cristobalite	ND *	$\frac{30 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ (Quartz Total Dust)
Tridymite	ND *	$\frac{80 \text{ mg/m}^3}{\% \text{SiO}_2}$ (Respirable Dust)
Aluminum Oxide (Al ₂ O ₃)	8-14%	15 mg/m ³
Calcium Oxide (CaO)	25-35%	5 mg/m ³
Magnesium Oxide (MgO)	2- 5%	15 mg/m ³ (Fume)
Iron Oxide (FeO)	6-10%	10 mg/m ³
Potassium Oxide (K ₂ O)	1-5%	NE **
Titanium Dioxide (TiO ₂)	0-2%	15 mg/m ³
ND * - Not Detectable		
NE ** - Not Established		



SAUDI ABRASIVES

Road No.118, 2nd Industrial Area
Dammam, Kingdom of Saudi Arabia.
Tel: +966 -13-834 2998
Fax: +966 -13-834 8617
Email: info@saudiabrasives.com
www.saudiabrasives.com

Marketed by

ABRADANT INTERNATIONAL LLC

Dubai Investment Park 2
Dubai UAE
Tel : +971-48876357
Fax: +971-48876347
Email: info@abr-intl.com
www.abr-intl.com

