One Stop Local Supply Source
PanAbrasives
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PanaGrit™ Carbon Steel Grit



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 Steel Grit	SAE J 827	SAE J 444	SAE J 445

Typical Grades (SAE)



SAE G14	SAE G16	SAE G18	SAE G25	SAE G40	SAE G50



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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	C25	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:

Hardness (HRC)	GP 46 - 50 GL 56 - 60 GH Min 60	**Microstructure**	GP Martensite and Bainite GL Martensite and Bainite GH Martensite and Austenite
Shape	Angular	**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	Grey, Silver, Blue	**Sulphur %**	< 0.05
Size Standard	SAE	**Phosphorus %**	< 0.05

PanaGrit™ Packaging:

25kg Bags or Drums of 750kg/800kg	1 Tonne Pallet (40 × 25kg Bags) or Drums

PanaGrit™ Ordering Information:

Stock Code	**ASA-STG**XXYY-Z
Key	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