High Carbon Steel Grit

Technical Data

Sigma Abrasives North America
Tel: (262)349-7821
Email: Sales@sigmateamna.com
Address: 938 Kingwood Drive #712
Kingwood, TX 77339
Website: www.sigmateamna.com

Sigma High Carbon Steel Grit

Specifications--Sigma Steel Grit is manufactured to **SAE J1993, SAE J444 and SSPC-AB 3 Specifications.**

Packaging--Sigma Abrasives Steel Grit is packaged in 55-gallon drums, palletized with 1500 or 1700 lbs. of steel grit per drum.

Chemical Composition

Carbon:	0.80 – 1.2%
Silicon:	0.40 – 1.5%
Manganese:	0.35 – 1.2%
Sulphur:	0.05% max
Phosphorus:	0.05% max

Common Applications

SURFACE PREPARATION to remove a prior coating and to produce an etched or angular profile to prepare that surface for the coating process

SURFACE CLEANING of rust, mill scale and other contaminants from the surface

DESCALING of products manufactured with forging, stamping, hot rolling or drawing processes

SAND REMOVAL from metal castings, most commonly in a wheel blast machine and utilizing the lowest hardness steel grit

Sigma Excellence

At Sigma Abrasives, our commitment to quality and service places our customers first.
Our sales team has decades of abrasives experience and is able to give on the ground technical support and service when needed.

Microstructure

Uniform Martensitic tempered to a degree consistent with the hardness range

Hardness

GS 40 - 51 HRc
GM 47 - 56 HRc
GL 54 - 61 HRc
GH +60 HRc

Other Characteristics

- Shape: Angular
- Bulk Density: 225-275 lbs/cubic ft.
- <1% non-metallic
- The specific density of cast steel grit shall not be less than 7.3 g/cc

SAE NO.	MM	IN.	G12	G14	G16	G18	G25	G40	G50	G80
8	2.36	0.0937	All Pass							
10	2.00	0.0787		All Pass						
12	1.70	0.0661	80% Min		All Pass					
14	1.40	0.0555	90% Min	80% Min		All Pass				
16	1.18	0.0469		90% Min	75% Min		All Pass			
18	1.00	0.0394			85% Min	75% Min		All Pass		
25	.710	0.0278				85% Min	70% Min		All Pass	
40	.425	0.0165					80% Min	70% Min		All Pass
50	.300	0.0117						80% Min	65% Min	
80	.180	0.0070							75% Min	65% Min
120	.125	0.0049								75% Min