

STEEL GRIT

(TECHNICAL DATA SHEET)

Steel Grit is produced by crushing heat-treated steel shot into angular shapes. The performance of SteelGrit depends on its hardness, which can be modified by heat treatment and is reflected in different grades offered. Steel Grit is commonly used for cleaning surfaces prior to coating.



CHEMICAL COMPOSITION

C	0.85 - 1.2%
M	0.62 - 1.2%
Si	0.4 - 1.2%
S	≤ 0.05%
P	≤ 0.05%

GRITS AVAILABLE

G10, G12, G14, G16, G18, G25, G40, G50, G80, G120 Other sizes available upon request.

PHYSICAL PROPERTIES

Hardness	GP: 40-50 HRC; GL: 50-55 HRC; GH: 55-60 HRC
Density	≥ 7.40 g/cm ³
Microstructure	Homogeneous tempered Martensite or Troosite
External Form	Angular (spherical and semi-spherical; flat granules < 10%)

Screen No	In	Screen Size	SAE J444				STEEL GRIT					
			G10	G12	G14	G16	G18	G25	G40	G50	G80	G120
6	0.132	3.35										
7	0.111	2.80	Pass									
8	0.0937	0.36		Pass								
10	0.0787	2.00	≥80%		Pass							
12	0.0661	1.70	≥90%	≥80%		Pass						
14	0.0555	1.40		≥90%	≥80%		Pass					
16	0.0469	1.18			≥90%	≥75%		Pass				
18	0.0394	1.00				≥85%	≥75%		Pass			
20	0.0331	0.850										
25	0.0280	0.710					≥85%	≥70%		Pass		
30	0.0232	0.600										
35	0.0197	0.500										
40	0.0165	0.425						≥80%	≥70%		Pass	
45	0.0138	0.355										
50	0.0117	0.300							≥80%	≥65%		Pass
80	0.007	0.180								≥75%	≥65%	
120	0.0049	0.125									≥75%	≥60%

GRADES OFFERED

- **GP:** GP- grade Steel Grit, which is angular when new, rapidly becomes rounded in use, and delivers effective performance in certain applications such as descaling.
- **GL:** Although harder than GP- grade, GL- grade Steel Grit also loses its sharp edges during shot blasting and is particularly suited to heavy descaling and surface preparation. GL Steel Grit cleans rapidly to give a clean finish to all surfaces. In wheel-blast machines, GL and GH grades are equally suitable.
- **GH:** GH- grade Steel Grit, which has the greatest hardness, remains angular, does not easily shatter, and maintains a fast, effective cutting action, making it ideal for deep descaling and surface etching requirements.

APPLICATIONS

- **Surface Preparation:** Used for blast cleaning of mill scale, dirt, rust, or paint coatings and for physically modifying steel and other metal structures, castings, and surfaces, creating roughness for better adhesion of paint or other coatings. Steel grit works best in tumblast applications where the eccentric rebound aids coverage. Airblast applications work best with high hardness grit for fast cleaning.
- **Stone Cutting:** Steel grit can be used in large multi-blade frames to cut blocks of granite.

Important: The technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product.