

## Abstract:

Cast steel angular grit, is produced by crushing specially heat treated oversize shot pellets. Produced grit by Akbari Metal Melt Fa.made of high carbon steel. Metallurgically, it has a structure of tempered martensite and or bainite and has appropriate strength and hardness. Due to being angular and depending on the selected conditions,...

[PDF](#)

[SEND ORDER](#)



**High Carbon Cast Steel Grit ISO G120 (SAE G18)**

## Steel Grit

High carbon steel grit has a good ability to remove deep surface contaminants, create a suitable surface profile before painting and coating. Steel Grit is sharp, typically angular in shape and harder than steel shot. The recyclability of this abrasive is around more than dozens of times before replacement, which means it generates less waste and has a lower environmental impact than certain other abrasives. Commonly used in cleaning applications, surface preparation and stone cutting-particularly granite.

ISO 11124-3	SAE J 444	Nominal Size (mm)	Distribution	Sieve Mesh	Screen aperture (mm)
G120	G 18	1.00-1.20	All Pass No.	14	1.40
			75% Min on No.	18	1.00
			85% Min on No.	25	0.71

Screening Specifications, High Carbon Cast Steel Grit ISO G120 (SAE G18)

Chemical Comp.	W. Percentage	Hardness No.	Micro Structure	Total Defect	Ap. Density
Carbon	0.85-1.20	390-530 HV(L) 470-610 HV(P)	Uniform Martensite And/or Bainite Microstructure, Tempered To A Degree Consistent With The Hardness Range	40 PCT Max  Consist of Shot or Greater Than Half-Round & Crack	7.0 Kg/Dm <sup>3</sup> Min
Manganese	0.60-1.20				
Selenium	0.40 Min				
Sulfur	0.05 Max				
Phosphor	0.05 Max				

Technical Specifications, High Carbon Cast Steel Grit ISO G120 (SAE G18)

## **General Applications, High Carbon Cast Steel Grit ISO G120 (SAE G18)**

- De sanding and roughening the surfaces of ferrous casting parts
- De scaling of forged, rolled and heat-treated parts of small and medium-sized parts with normal contamination
- De- oxidation and removal of atmospheric contaminants from ferrous metal surfaces with medium oxidation level
- Surface preparation of metal parts before applying paint and coating (Mixing with similar size of steel shot)
- Beautifying and antique stone, tile, earthenware, glass and wood surfaces
- De rusting of ferrous parts with partial contamination level
- Roughing the surfaces of rolling rollers

### **Benefits:**

- Extreme Durability
- Very High Recyclability
- Used in Both Wheel Blasting and (Air) blasting
- Multiple Hardness Available
- Very Low Dusting

### **Applications:**

- Surface Preparation
- Cleaning
- Roughing