



Abrasive - Carbon Steel Grit

The Steel grit abrasive is produced with the best steel, to ensure high efficiency of the product. It is thermally treated in a special process, that achieves a tempered martensite structure, ensuring resistance to fatigue and operational effectiveness. The Grit is manufactured under the following norms SAE J444, SAE J-827 y SAE J-1993 in different granulometries and hardness, making possible an excellent result in different applications, such as:

- Smelting sand removal.
- Pickling of forged pieces, flat and round laminates, metallic structures, etc.
- Cleaning in general.
- Preparation of surfaces for painting, metalizing, etc.
- Shotblasting of lamination cylinders.

Chemical composition

Carbon (C)	0.80 % - 1.20 %
Manganese (Mn)	
S-110	0.35 %- 1.20 %
S-170	0.50 %- 1.20 %
≥ S-230	0.60 %- 1.20 %
Silicon (Si)	> 0.40 %
Phosphorous (P)	≤ 0.05 %
Sulphurous (S)	≤ 0.05 %



Structure

Martensite structure totally fine and homogenous

Granulometries

		SIEVES															
		7	8	10	12	14	16	18	20	25	30	35	40	45	60	80	120
		2.8	2.3	2	1.7	1.4	1.18	1	0.85	0.71	0.6	0.5	0.42	0.39	0.3	0.18	0.13
GRIT CODES	G12		All through		80% min	90% min.											
	G14			All through		80% min	90% min.										
	G16				All through		75% min	85% min.									
	G18					All through		75% min		85% min.							
	G25						All through		70% min				80% min.				
	G40							All through					70% min		80% min.		
	G50									All through					65% min	75% min.	
	G80												All through			65% min	75% min.
	G120														All through		60% min

According to international norms SAE J-444

Hardness

Generally, the hardness of grit is higher than the hardness of shot due to its usage characteristics.

To deal with a more exigent market Ikk do Brasil offers 3 different types of hardness.

Grit type C: This grit is quickly rounded with use, it is particularly recommended for the removal process rust and for the preparation of surfaces.

Grit type D: Despite of having a higher hardness with regard to grit type C, it also loses its angles during the shotblasting process and is specially recommended for the removal process rust and for the preparation of surfaces.

Grit type E: Having a high hardness, grit type E remains angular in the operative mixture. This grit is particularly effective in the preparation of surfaces process, when uniformly rough surfaces are required. It is usually used in compressed air shotblasting equipments, this grit can also be used in centrifuge turbine equipments, where working requirements are more important than the corresponding costs (example: shotblasting of lamination cylinders).

Denomination	Hardness
C	480-550 Hv (48-52 Hrc)
D	577-720 Hv (54-61 Hrc)
E	> 679 Hv (>60 Hrc)



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