

TECHNICAL DATA SHEET



MATERIAL STEEL GRIT

SAE DENOMINATION: HCS G-50 L

	SAE values J-1993 Sep. 96	G.A. Standar Values																				
Chemical Composition	<table border="1"> <tr><td>Carbon</td><td>0,80 - 1,20%</td></tr> <tr><td>Silicon</td><td>0,40 mín.</td></tr> <tr><td>Manganese</td><td>0,60 - 1,20%</td></tr> <tr><td>Sulfur</td><td>0,05% máx.</td></tr> <tr><td>Phosphorous</td><td>0,05% máx.</td></tr> </table>	Carbon	0,80 - 1,20%	Silicon	0,40 mín.	Manganese	0,60 - 1,20%	Sulfur	0,05% máx.	Phosphorous	0,05% máx.	<table border="1"> <tr><td>Carbon</td><td>0,87%</td></tr> <tr><td>Silicon</td><td>0,74%</td></tr> <tr><td>Manganese</td><td>0,78%</td></tr> <tr><td>Sulfur</td><td>0,03%</td></tr> <tr><td>Phosphorous</td><td>0,03%</td></tr> </table>	Carbon	0,87%	Silicon	0,74%	Manganese	0,78%	Sulfur	0,03%	Phosphorous	0,03%
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Hardness	The hardness of 90% of all shot particles shall be within the range of 54 to 61 HRC.	55,6 HRC.																				
Microstructure	Uniform martensite, with fine, well distributed carbides, if any.	Complies																				
Density	Not minor than 7,3 g/cm ³	7,62 g/cm ³																				
Nonmagnetic Material	1% max.	0,20%																				
Microstructural Defects	15% max.	4%																				
Particle Shape	5% máx. of round or half round particles	2%																				
Shrinkage	10% max	4%																				
Cracks	No more than 40% of the particles shall contain major cracks	20%																				
	SOCO-RIL Specification	G.A. Standar Values																				
Chloride (CL) mg. In 1000 ml of solution	1 ppm. Max	0,05 ppm.																				
Chloride (CL) mg. In 1000 gr. of shot	1 ppm. Max	0,011 ppm.																				
Sulphate mg. In 1000 ml of solution	5 ppm. Max	2,2 ppm.																				
Carbonate (Co3) mg. In 1000 ml of solution	1 ppm. Max	0,03 ppm.																				
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Cooper	0,3% Max	0,09%																				
Conductivity	80 µs/cm Max	60 µs/cm																				
	SAE J-444 Values Aug. 1993	G.A. Standar Values																				
Size Specification	Mesh	Opening	% ac. ret.	Mesh	Opening	% ac. ret.																
	25	0,710mm	All Pass	25	0,710mm	All Pass																
	40	0,425mm	-	40	0,425mm	-																
	50	0,300mm	65% mín	50	0,300mm	95% mín																
	80	0,180mm	75% mín	80	0,180mm	100% mín																