

Material: Centrifugally cast ductil iron, perlitic normalized

Application: Cylinder liner to special applications for racing and piston rings with maximal strength and high mechanical resistance.

Specifications

American - Classification ASTM 536 - 84
German - DIN 1693 GGG70

Chemical Composition

Element	C	Si	Mn	P	S	Cu	Ni	Mg
%	3,0 - 4,0	2,0 - 3,5	0,3-0,9	≤ 0,10	≤ 0,10	0,4 - 1,0	0-1,6	0,02-0,07

Other elements may be present as impurities.

Mechanical Properties

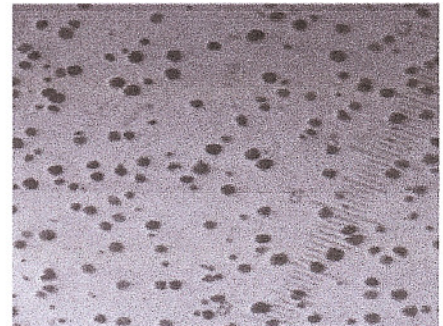
Hardness: 99 -106 HRB, 235 - 290 HB
Tensile Strength: min. 680 N/mm²
Yield Strength: min. 440 N/mm²
Elongation: min. 2%

Microstructure

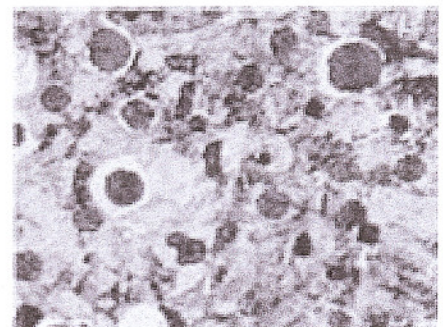
Graphite: well formed graphite nodules, minimum 85%

Matrix: predominantly perlitic, maximum 5% of ferrite

Note: Variations in composition are admissible on condition that the structure and mechanical properties are not affected.



100:1 Non-etched



400:1 Etched with Nital