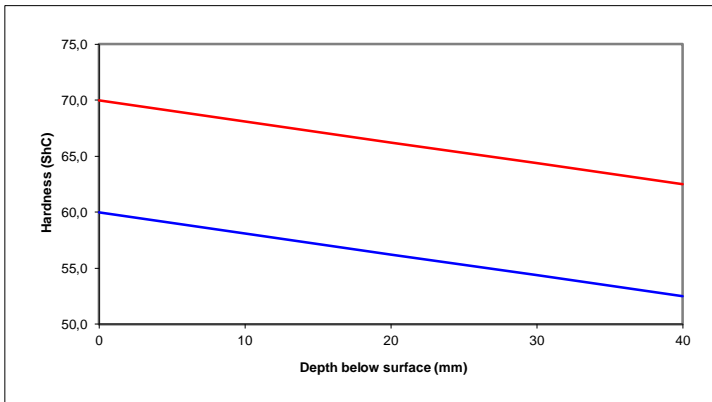


A Cr-Ni-(Mo) alloyed iron containing graphite nodules in a pearlitic matrix.
 The higher amount of carbides assures a lower hardness gradient on the roll.
 Rolls will have a higher wear resistance than softer specs.

Chemical Composition

	C	Mn	Si	P	S	Ni	Cr	Mo	Mg		
Min	3,10	0,50	1,10	0,000	0,000	1,70	0,30	0,20	0,04		
Max	3,80	1,10	1,60	0,100	0,100	2,40	0,90	0,60	0,08		

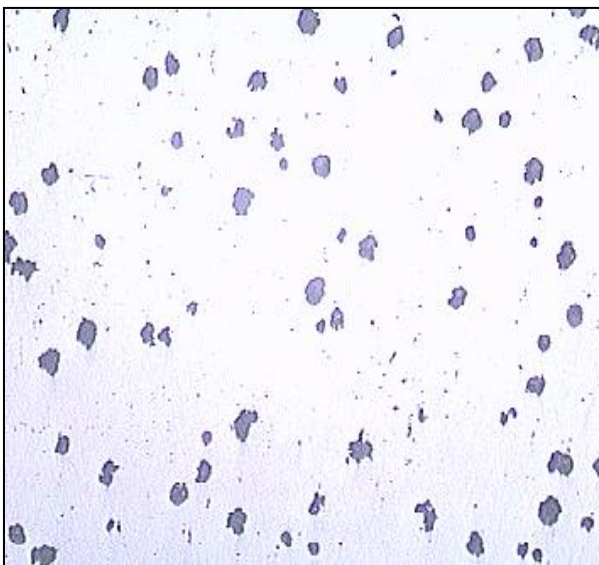
Hardness Curve



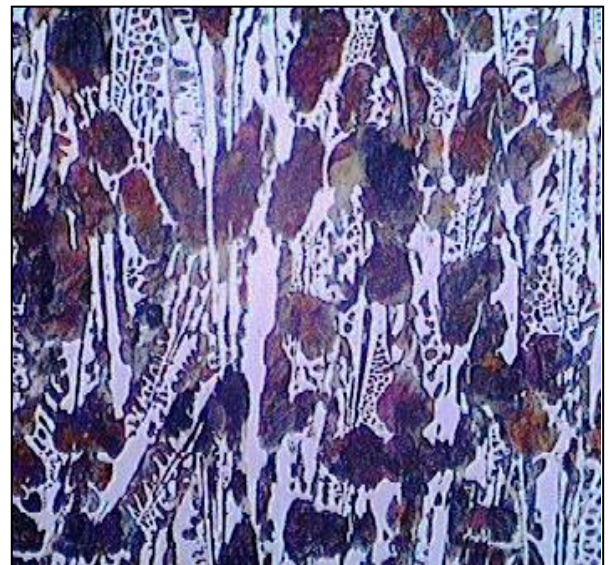
Physical Properties

Tensile Strength (tensile test rod B12x60 DIN 50125)	350 to 450 MPa
Bending Strength (Bending test 10 at DIN 50110)	700 to 800 MPa
Impact strength (ISO-V Test piece, DIN 50115)	2.0 to 2.5 J
Percentage elongation (after fracture)	< 1 %
Alternating tensile - compression strength	80 to 120 MPa

Microstructure



50 X - Graphite unetched



100 X - etched