

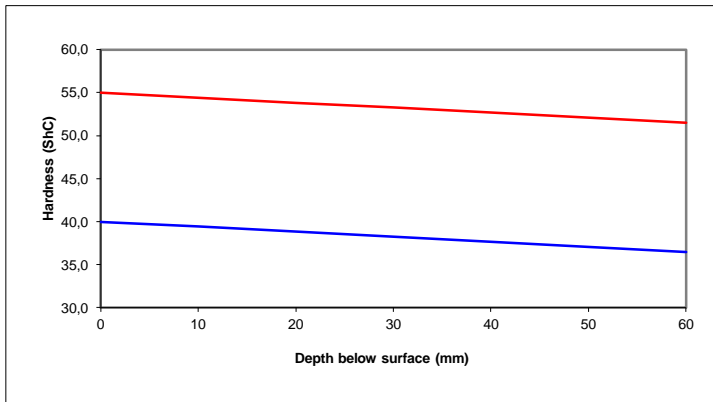
This Cr alloyed steel has a pearlitic matrix with well distributed carbides in the matrix, heat treated to the suitable hardness.

Depending on the chemical composition this material has good fire crack resistance, excellent wear and mechanical properties.

Chemical Composition

	C	Mn	Si	P	S	Ni	Cr	Mo			
Min	1,30	0,60	0,40	0,000	0,000	0,00	0,70	0,00			
Max	2,60	1,20	1,00	0,100	0,100	1,00	1,10	0,40			

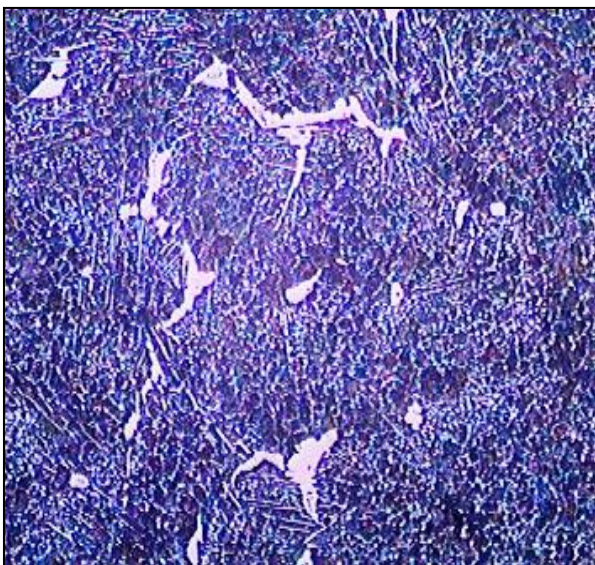
Hardness Curve



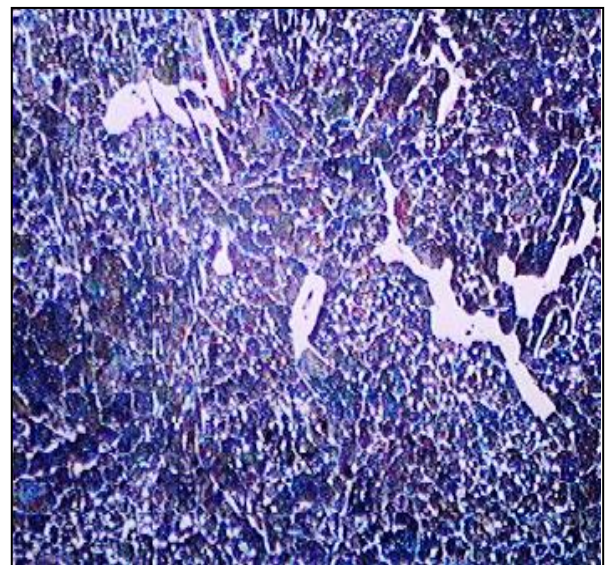
Physical Properties

Tensile Strength (tensile test rod B12x60 DIN 50125)	400 to 800 MPa
Bending Strength (Bending test 10 at DIN 50110)	850 to 1200 MPa
Impact strength (ISO-V Test piece, DIN 50115)	1.5 to 4.0 J
Percentage elongation (after fracture)	< 1 %
Alternating tensile - compression strength	150 to 200 MPa

Microstructure



100 X



200 X