

13% Cr STAINLESS STEEL BARS X20Cr13

7.0 CHEMICAL COMPOSITION

Heat analysis in weight %

Element	C	Si	Mn	P	S	Cr	Ni
Min.	0.17	0.10	0.30	-	-	12.5	0.30
Max.	0.22	0.60	0.80	0.030	0.020	14.0	0.80

9.0 MECHANICAL PROPERTIES

9.1 The material shall comply with the following mechanical properties at room temperature.

0.2 % Yield strength (N/mm ²)	≥ 600
Tensile Strength (N/mm ²)	800 – 950
% Elongation (l ₀ = 5 d)	≥ 15
R A (%)	≥ 50
Impact (J) (mean of 3 ISO-V Sample)	≥ 20 *
Hardness (HB 30)	≤ 280

* The smallest value shall be a least 14 J

9.2 Tensile test shall be carried out in accordance with IS:1608 or equivalent international Standard.

9.3 Impact test shall be carried out on 3 ISO-V samples in accordance with IS: 1757 or equivalent international standard. Only one test value out of three can be below the specified value, but in no case it should be below 14 J.

9.4 Hardness test (Brinell) shall be carried out according to IS: 1500 or equivalent international standard.