

Quality	13CrMo4-5
According to Standard	EN 10273 : 2000
Number	1.7335



KRANTI INDUSTRIAL
METAL SUPPLIER LLP

Comparable Standards	EN	W.N.
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13CrMo4-5	1.7335
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Chemical Analysis

C %	Si % max	Mn %	P% max
0.08 - 0.18	0.35	0.40 - 1.00	0.03
Cr %	Cu max.	Mo %	Ni %
0.70 - 1.15 ⁴⁾	0.3	0.40 - 0.60	-
S% max	Al _{tot}		
0.025	1)		

Hot Work and Heat Treatment Temperatures

Temperature Range For		
Normalizing	Austenitizing	Quenching Tempering ²⁾
--	890 to 950	630 to 730

Mechanical Properties at Room Temperature

Usual delivery conditon	Diameter or thickness mm		Yield Strength R
+N	over	up to	N/mm2 min.
+NT	16	16	300
+NT or +QA or +QL	60	100	275
+QL	100	150	255
Tensile Strength	Elongation after fracture ($L_0 = 5,65\sqrt{S_0}$) A (longitudinal) % min.	Minimum impact energy value KV (longitudinal) J at temperatures in °C	
N/mm2			
450 to 600	20		
440 to 590	19	-	-
430 to 580			40

1) The Al content of the cast shall be determined and given in the inspection document.

4) ●● If resistance to pressurized hydrogen is of importance,
a minimum percentage by mass of Cr of 0,80% should be agreed at the time of enquiry and order.