

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

Comparable Standards	EN	W.N.		
		13CrMo4-5	1.7335	
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 <sup>4)</sup>	0.3	0.40 - 0.60	-	
S% max	Al <sub>tot</sub>			
0.025	1)			

#### Hot Work and Heat Treatment Temperatures

Normalizing	Temperature Range For	
	Austenitizing	Quenching Tempering <sup>2)</sup>
--	890 to 950	630 to 730

#### Mechanical Properties at Room Temperature

Usual delivery conditon	Diameter or thickness mm		Yield Strength R N/mm2 min.
	+N	over	
+NT	16	16	300
+NT or +QA or +QL	60	100	275
+QL	100	150	255
Tensile Strength N/mm2	Elongation after fracture (L <sub>0</sub> = 5,65S <sub>0</sub> ) A (longitudinal) % min.	Minimum impact energy value KV (longitudinal) J at temperatures in °C	
		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.