Quality	**30CrNiMo8**
According to Standard	**EN 10083-3:2006 (E)**
Number	**1.658**

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Comparable Standards	**EN**	**W.N.**	**AISI**
	30CrNiMo8	1.6580	–

Chemical Analysis	**C % max**	**Si % max**	**Mn %**	**P% max**	**S% max.**	**Cr %**
	0.26 to 0.34	0.40	0.50 to 0.80	0.025	0.035	1.80 to 2.20

Mo %	**Ni %**	**V**	B
0.30 to 0.50	1.80 to 2.20	–	–

Hot Work and Heat Treatment Temperatures

Quenching [c,d] °C	**Quenching[e] agent**	**Tempering[f] °C**	**End Quench Test °C**
830 to 860	Oil or Water	540 to 660	850 ± 5

Mechanical Properties at Room Temperature

	Mechanical Properties for the ruling section (see EN 10083-1:2006, Annex A) with a diameter)d) or for flat products thickness (f) of				
	R_e min. MPa[c]	**R_m**	**A min. %**	**Z min. %**	**KV[b] min. J**
d ≤ 16 mm t ≤ 8 mm	1050	1250 to 1450	9	40	–
16 mm < d ≤ 40 mm 8 mm < t ≤ 20 mm	1050	1250 to 1450	9	40	30
40 mm < d ≤ 100 mm 20 mm < t ≤ 60 mm	900	1000 to 1300	10	45	35
100 mm < d ≤ 160 mm 60 mm < t ≤ 100 mm	800	1000 to 1200	11	50	45
160 mm < d ≤ 250 mm 100 mm < t ≤ 160 mm	700	900 to 1100	12	50	45