

Quality 35NiCrMo15

According to Standard UNI 6925 : 1971

Number



Comparable Standards	German DIN	France AFNOR	Spain UNE	China GB	U.K. B.S.	Russia GOST	USA AISI - SAE	Japan JIS
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835M30

Chemical Analysis	C% max	Si% max	Mn% max	P% max	S% max	Cr%	Mo%	Ni%
	0.30 - 0.38	0.15 - 0.35	0.30 - 0.60	0.025	0.02	1.60 - 1.90	0.25 - 0.45	3.80 - 4.00

Hot Work and Heat Treatment Temperatures

Temperature °C

Hot - Forming	Supply State +U	Soft Annealing +A	Isothermal Annealing +I	Normalising	Quenching	End Quench Hardenability test	Tempering	Stress-relieving +SR
1000 - 900	natural state	650 - 680air		840 - 860	830 - 860	830	550 - 600	50° under the temperature of tempering
		HB max 275		air	oil , polymer	Water	air	

Mechanical Properties at Room Temperature

Hot Rolled Mechanical Properties in Quenched & Tempered condition

Size d/t mm		Testing at Room Temperature (Longitudinal)					HB	
From	To	R N/mm2	Rp 0.2 N/mm2	A% min.	C% min.	Kv J min.	for information	
	40	1230 - 1370	1030	9		20	Quenched & Tempered Steel Quenched & Stress-relieving steel	
	11	1716 - 1960	1275	7		18		

d = diameter t = thickness

Table of tempering values obtained at room temperature on rounds of Dia. 10mm after quenching at 850°C in Oil

HB		518	496	468	448	432	409	385	357	327	301
HRC		52.5	51	49	47.5	46	44	41.5	38.5	35	32
R	N/MM2	1900	1820	1720	1610	1520	1420	1320	1200	1090	1000
Rp 0.2	N/MM2	1550	1500	1430	1360	1290	1200	1100	990	900	870
Tempering at °C		200	250	300	350	400	450	500	550	600	650