

Quality 36NiCrMo16

According to Standard EN 10083 - 3 : 2006

Number 1.6773



Comparable Standards	German DIN	France AFNOR	Spain UNE	China GB	U.K. B.S.	Russia GOST	USA AISI - SAE	Japan JIS
	36NiCrMo16	35NCD16	F.1260		85M30	36X2H4MA		

Chemical Analysis

C% max	Si% max	Mn% max	P% max	S% max	Cr%	Mo%	Ni%
0.32 - 0.39	0.40	0.50 - 0.80	0.025	0.025	1.60 - 2.00	0.25 - 0.45	3.60 - 4.10

Hot Work and Heat Treatment Temperatures

Temperature °C

Hot - Forming	Supply State +U	Soft Annealing +A	Isothermal Annealing +I	Normalising	Quenching	Quenching	Tempering	Stress-relieving +SR
1100 - 900	natural state	650 air		850 air	880 air	830 - 860	550 - 650	50° under the temperature of tempering
		HB max 269				oil , polymer, water or s.b (500)	air	

Mechanical Properties at Room Temperature

Hot Rolled Mechanical Properties in Quenched & Tempered condition EN 10083 - 3 : 2006

Size d/t		Testing at Room Temperature (Longitudinal)					
Dia.	Thick	R	Rp 0.2	A%	C%	Kv	HB
From	To	N/mm2	N/mm2	min.	min.	J min.	for information
	16 / 8	1250 - 1450	1050	9	40		370 - 415
16 / 8	40 / 20	1250 - 1450	1050	9	40	30	370 - 415
40 / 20	100 / 60	1100 - 1300	900	10	45	35	370 - 380
100 / 60	160 / 100	1000 - 1200	800	11	50	45	298 - 359
160 / 100	250 / 160	1000 - 1200	800	11	50	45	298 - 359

d = diameter t = thickness