

EN26 High tensile steel

Typical Analysis (Ave. values %)	C	Si	Mn	Ni	Cr	Mo	S	P	
	0.40	0.25	0.60	2.50	0.65	0.55	0.025	0.025	
NEAREST STANDARD	AS		DIN		BS 970		AISI		
	X9940		1.6745 40NiMoCr10-4		826 M 40 EN26		-		

DESCRIPTION	2½% Nickel Chromium Molybdenum alloy steel with higher Carbon content. Supplied in the hardened and tempered condition. Higher strength than EN25
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APPLICATIONS	Highly stressed components of large cross section for automotive, and general engineering applications, such as Shafts, connecting rods, pump and gear shafts, Die Holder Blocks, heavy forgings where optimum strength is required.
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HEAT TREATMENT	Forge	850-1050°C. Cool in furnace.
	Normalize	850-880°C. Air cool.
	Anneal	650-700°C. Cool slowly in controlled furnace.
	Stress relieve	In the quenched and tempered condition, about 30-50°C below the tempering temperature. Air cool. In the annealed condition, 600-650°C. Air cool.
	Harden	820-850°C Oil quench.
	Temper	540-660°C hold for 1 hour min. at temperature, air cool.

MECHANICAL PROPERTIES Heat Treated Condition	Condition	Ruling section mm	Tensile Strength MPa	Yield Strength MPa	Elong. %	Izod Impact J	Brinell Hardness
	U	250	930-1080	725	12	34	269-331
	U	150	930-1080	740	12	47	269-331
	V	250	1000-1150	820	12	34	293-352
	V	150	1000-1150	835	12	47	293-352
	W	250	1080-1230	910	11	27	311-375
	W	150	1080-1230	925	11	40	311-375
	X	150	1150-1300	1005	10	34	341-401
	Y	150	1230-1380	1080	10	34	363-429
	Z	100	1555-	1125	7	13	444-

WELDING	Limited weldability. Parts should be welded in the hardened and tempered condition. Strength properties of the joint will not be the same as the base metal. Preheat 300-400oC. Temper after welding to about 35-50°c below the recommended tempering temperature. Filler metal: - Fox CM2-KB electrodes or CM2-IG wire. For advice in connection with difficult welding, please consult our engineers.
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SIZE RANGE	Standard stock condition "V" (Refer to mechanical properties)	
	Round	32 to 360 mm

<u>LOCATIONS</u>					
Bohler Uddeholm Australia Pty Ltd ABN 1500013052					
Sydney	129-135 McCredie Rd Guildford	2161	Ph (02) 8724 5554	Fax (02) 8724 5555	
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Albury	1 Eames St Albury	2640	Ph (02) 6041 3399	Fax (02) 6041 1820	
Wollongong	40 Doyle Ave Unanderra	2526	Ph (02) 4272 6544	Fax (02) 4272 7563	
Marayong	1/21 Binney Rd Marayong	2148	Ph (02) 9831 4431	Fax (02) 9671 1682	
Melbourne	282-290 Greens Rd Dandenong	3175	Ph (03) 9767 5554	Fax (03) 9767 5555	
Bayswater	4 Amsted Rd Bayswater	3153	Ph (03) 9739 8022	Fax (03) 9739 8033	
Adelaide	1 Williams Cir Pooraka	5095	Ph (08) 8368 4554	Fax (08) 8368 4555	
Brisbane	12-18 Limestone St Darra	4076	Ph (07) 3712 9554	Fax (07) 3712 9555	
Townsville	9-11 Caldwell St Garbutt	4814	Ph (07) 4479 4800	Fax (07) 4725 1316	
Perth	29-33 Gauge Cir Canningvale	6155	Ph (08) 9455 8672	Fax (08) 9455 8673	
Kewdale	5 Beete St Welshpool	6106	Ph (08) 9350 9582	Fax (08) 9350 9683	
Launceston	20 Murphy St Invermay	7248	Ph (03) 6334 3542	Fax (03) 6331 4001	
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