

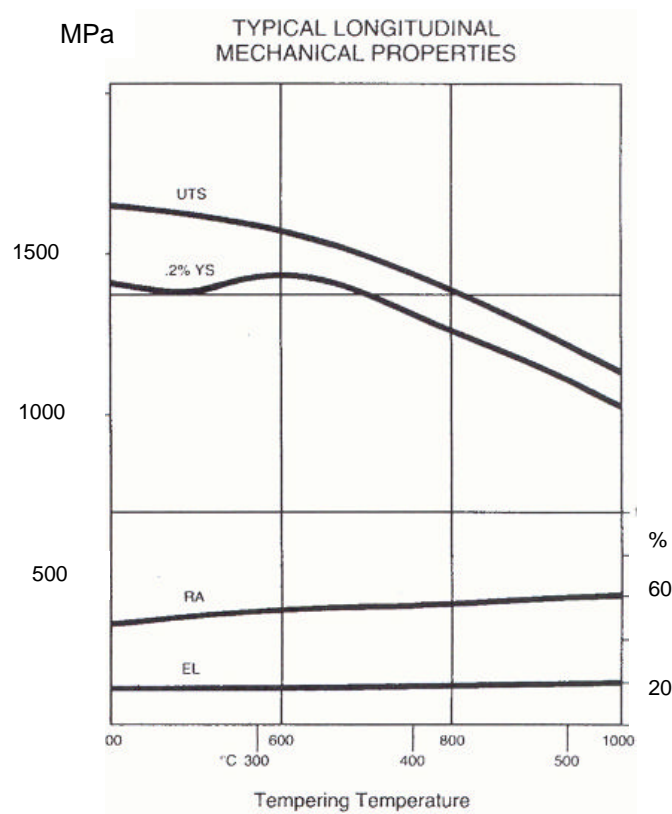
V136 High tensile steel

Typical Analysis (Ave. values %)	C	Si	Mn	Ni	Cr	Mo	S	P
	0.25	1.50	1.35	1.80	0.30	0.40	= 0.025	= 0.025
NEAREST STANDARD	UNS				AMS			
	K32550				6418			

DESCRIPTION	HY-TUF is a high strength low alloy steel. It is typically used in the 1500/1650 Mpa tensile strength range. At this strength level the alloy has good ductility, fracture toughness and impact strength.
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APPLICATIONS	Used for aircraft landing gear, earth moving equipment, pneumatic tools parts, rock drill bodies.
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MECHANICAL PROPERTIES Heat Treated Condition	Tensile Strength MPa	Yield Strength MPa	Elong. %	Reduction of area %	Brinell Hardness
	1500	1300	10	47	340-400



HEAT TREATMENT	Forge	1060-1230°C. Cool in furnace.
	Normalize	930°C. Air cool.
	Anneal	720°C. Cool slowly in controlled furnace.
	Harden	880-920°C 1 hour, Oil quench.
	Temper	210-320°C hold for 1 hour min. at temperature, air cool.

WELDING	HY-TUF can be welded by conventional methods. Sound deposits can be obtained by using low hydrogen electrodes of similar composition.
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SIZE RANGE	Round	33 to 175 mm
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<u>LOCATIONS</u>					
Bohler Uddeholm Australia Pty Ltd ABN 15000013052					
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	
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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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