

20MnV6 HOLLOW BAR

20MnV6 Hollow Bar is a Vanadium micro alloyed carbon-manganese steel. Supplied in the as rolled or cold drawn condition (size dependent), it has a typical ultimate tensile range of 550-790 Mpa and high typical yield strength of 430-570 Mpa. 20mnV6 is a readily weldable, high yield/tensile strength micro alloy steel, and is extensively used in almost all industry sectors for a wide range of applications.

Stocked Sizes - Rounds EN Sizes - 30 mm O/D – 250 mm O/D
ISO Sizes – 250 mm O/D to 610 mm O/D

Finishes - Hot Rolled and Cold Rolled

Related Specifications

Europe	EN 10294-1 2005 – E470
Germany	W. Nr. 1.5217 20MnV6
USA	UNS K01907

Chemical Composition

	Min. %	Max %
Carbon	0.16	0.22
Silicon	0.10	0.50
Manganese	1.30	1.70
Vanadium	0.08	0.15
Phosphorous	0	0.03
Sulphur	0.015	0.05

Mechanical Properties as Rolled

Tensile Strength Mpa (Min)	<16mm Wall	650
	16mm<25mm Wall	620
	>25mm Wall	550
0.20% Proof Stress (Yield) Mpa	<16mm Wall	470
	16mm<25mm Wall	460
	25mm<70mm Wall	430
	<70mm Wall	Ask For Test Cert
Elongation % Min		17%
Hardness Brinell HB Min		170 BHN

Annealing

Heat to 815-850 Deg C. Hold until temperature is uniform throughout the section and allow to cool in furnace.