

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

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	
Hardness Brinell HB Min		170 BIIN	



316/L STAINLESS STEEL HOLLOW BAR

316/L is a low carbon austenitic marine grade stainless steel. It is characterized as a good strength stainless steel with excellent corrosion resistance in the annealed condition. Optimum corrosion resistance is achieved in annealed condition.

316/L Stainless Steel is not suitable for hardening by thermal treatment, but can be increased by cold working. Note that this has a corresponding reduction in ductility.

Typical uses include: Textile Equipment, Marine Equipment and fittings, Pulp and Paper processing equipment, medical equipment etc.

Stocked Sizes - 32 mm - 400 mm O/D

Related Specifications				
Germany	W Nr 1.4404 X2CrNiMo17 13 2	W Nr 1.4404 X2CrNiMo17 13 2		
	W Nr 1.4435 X2CrNiMo18 14 3	}		
USA	ASTM A511-96 316L	ASTM A511-96 316L		
	SAE 30316L AISI 316L			
	UNS S31603			
Chemical Composition				
	Min. %	Max %		
Carbon	0	0.08 (316L – 0.03)		
Silicon	0	1.00		
Manganese	0	2.00		
Nickel	10.00	15.00		
Chromium	16.00	18.00		
Molybdenum	2.00	3.00		
Phosphorous		0.045		
Sulphur		0.030		

Typical Mechanical Properties – At Room Temperature in rolled annealed condition (For Guidance Only)		
Tensile Strength (Mpa)	580	
Yield Strength (Mpa)	290	
Elongation in 50mm (%)	50	
Hardness (Brinell BHN)	175	
Annealing		

Heat to 1020-1100 Deg C. Hold until temperature is uniform throughout the section. Soak as required (Min 30 minutes per 25mm of section). Quench in water to optimize corrosion resistance.