


Quality	20MnVS6				
According to standards	Werkstoff				
Number	1.5217				
 ALOK <sup>TM</sup> INGOTS steel re engineered AN ISO 9001:2008 CERTIFIED COMPANY					
<b>Equivalent</b>	<b>Italy UNI</b>	<b>China GB</b>	<b>Germany DIN</b>	<b>UK</b>	<b>USA AISI/SAE</b>
	20MnVS6	20MV	1.5217 (1.8915 StE 460)	GR 55C	A 381
<b>Chemical composition</b>					
<b>C% max</b>	<b>Si%</b>	<b>Mn%</b>	<b>P% max</b>	<b>S% max</b>	<b>Cr% max</b>
0.16-0.22	0.15-0.45	1.30-1.70	0.025	0.020-0.040	0.50
	<b>Mo% max</b>	<b>Ni% max</b>	<b>V% max</b>	<b>Al%</b>	
	0.15	0.30	0.10-0.20	0.020-0.050	
<b>Temperature <math>\text{O}^{\circ}\text{C}</math></b>					
<b>Hot-forming</b>	<b>Quenching</b>	<b>Tempering</b>	<b>Stress Relieving</b>	<b>Carbonitriding</b>	
1100-850	880-930	550-650	50°C under the temperature of tempering	870-880 gas tempering 150-200	
	oil or polymer	air		HRC 60	
<b>Mechanical properties</b>					
<b>Hot Rolled untreated state +U</b>					
<b>Size (MM)</b>	<b>Testing (longitudinal)</b>				
<b>From to</b>	<b>R (N/mm<sup>2</sup> min)</b>	<b>Rp 0.2 N/mm<sup>2</sup></b>	<b>A% min</b>	<b>C reduct</b>	<b>HB</b>
25	580	450	16		172
25 to 80	550	420	16		159
80	530	380	16		156
<b>Hot-Rolled normalized +N</b>					
<b>Size (MM)</b>	<b>Testing at room temperature (longitudinal)</b>				
<b>From to</b>	<b>R (N/mm<sup>2</sup> min)</b>	<b>Rp 0.2 N/mm<sup>2</sup></b>	<b>A% min</b>	<b>C reduct</b>	<b>HB</b>
25	580	450	18		172
25 to 80	550	430	18		159
80	530	390	18		156