

SA 516 GR.70

PRESSURE VESSEL STEEL

STANDARD	ASME																																												
IDENTIFICATION NUMBER	-																																												
CLASSIFICATION	-																																												
TYPE	-																																												
ROLLING STATE	Normalised																																												
BRIEF DESCRIPTION	Steel for heaters and pressure vessels. Excellent notch sensitivity and weldability.																																												
APPLICATIONS	Pressure vessels, boilers and heat exchangers, above all in oil, gas, and petrochemical industries.																																												
STANDARD COIL STOCK RANGE	<table border="1"> <thead> <tr> <th>SA 516 GR.70</th> <th>1500</th> <th>2000</th> </tr> </thead> <tbody> <tr><td>3</td><td>•</td><td></td></tr> <tr><td>4</td><td>•</td><td></td></tr> <tr><td>5</td><td>•</td><td>•</td></tr> <tr><td>6</td><td>•</td><td>•</td></tr> <tr><td>8</td><td>•</td><td>•</td></tr> <tr><td>10</td><td>•</td><td>•</td></tr> <tr><td>12</td><td>•</td><td>•</td></tr> <tr><td>15</td><td>•</td><td></td></tr> </tbody> </table>	SA 516 GR.70	1500	2000	3	•		4	•		5	•	•	6	•	•	8	•	•	10	•	•	12	•	•	15	•																		
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CHEMICAL COMPOSITION	<p>Regulatory standard</p> <table border="1"> <thead> <tr> <th>C (%)</th> <th>Si (%)</th> <th>Mn (%)</th> <th>P (%)</th> <th>S (%)</th> <th>Al (%)</th> <th>Nb (%)</th> <th>Ti (%)</th> <th>V (%)</th> <th>Mo (%)</th> <th>Cu (%)</th> </tr> </thead> <tbody> <tr> <td>≤ 0.28*</td> <td>≤ 0.40</td> <td>≤ 1.20*</td> <td>≤ 0.025</td> <td>≤ 0.025</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Cr (%)</th> <th>Ni (%)</th> <th>N (%)</th> <th>B (%)</th> <th>Nb+Ti+V (%)</th> <th>Cr+Mo+Ni (%)</th> <th>Ni+Cr+Cu+Mo (%)</th> <th>C.E.V. (%)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>* = for thicknesses in mm ≤ 50 C.E.V. (%) = $C + (Mn/6) + [(Cr+Mo+V)/5] + [(Ni+Cu)/15]$</p>	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Al (%)	Nb (%)	Ti (%)	V (%)	Mo (%)	Cu (%)	≤ 0.28*	≤ 0.40	≤ 1.20*	≤ 0.025	≤ 0.025							Cr (%)	Ni (%)	N (%)	B (%)	Nb+Ti+V (%)	Cr+Mo+Ni (%)	Ni+Cr+Cu+Mo (%)	C.E.V. (%)														
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TOLERANCES	<p>Tolerances on the dimensions and on the shape UNI EN 10051 Surface condition EN10163 Cl. A</p>																																												
CERTIFICATIONS	EN 10204-3.1																																												