

# P355NL2

## PRESSURE VESSEL STEEL

STANDARD	EN10028-3																																																																	
IDENTIFICATION NUMBER	1.1106																																																																	
CLASSIFICATION	-																																																																	
TYPE	-																																																																	
ROLLING STATE	Normalised																																																																	
BRIEF DESCRIPTION	Fine-grain structural steel for pressure vessels. Good weldability and good cold and hot-rolling properties under normalised conditions.																																																																	
APPLICATIONS	Fine-grain, high-resistance structural steel for pressure vessels.																																																																	
STANDARD COIL STOCK RANGE	<table border="1"> <thead> <tr> <th>P355NL2</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>	P355NL2	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>≤ 0.18</td> <td>≤ 0.50</td> <td>1.10-1.70</td> <td>≤ 0.020</td> <td>≤ 0.005</td> <td>≥ 0.020</td> <td>≤ 0.05</td> <td>≤ 0.03</td> <td>≤ 0.10</td> <td>≤ 0.08</td> <td>≤ 0.30</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>≤ 0.30</td> <td>≤ 0.50</td> <td>≤ 0.012</td> <td></td> <td>≤ 0.12</td> <td></td> <td></td> <td>≤ 0.43*</td> </tr> </tbody> </table> <p><i>* = for thicknesses in mm ≤ 60</i>  <i>C.E.V. (%) = C+(Mn/6)+[(Cr+Mo+V)/5]+[(Ni+Cu)/15]</i></p>	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Al (%)	Nb (%)	Ti (%)	V (%)	Mo (%)	Cu (%)	≤ 0.18	≤ 0.50	1.10-1.70	≤ 0.020	≤ 0.005	≥ 0.020	≤ 0.05	≤ 0.03	≤ 0.10	≤ 0.08	≤ 0.30	Cr (%)	Ni (%)	N (%)	B (%)	Nb+Ti+V (%)	Cr+Mo+Ni (%)	Ni+Cr+Cu+Mo (%)	C.E.V. (%)	≤ 0.30	≤ 0.50	≤ 0.012		≤ 0.12			≤ 0.43*																											
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TOLERANCES	<p>Tolerances on the dimensions and on the shape UNI EN 10051  Surface condition UNI EN 10163-2</p>																																																																	
CERTIFICATIONS	EN 10204-3.1																																																																	