

S420MC

MICRO-ALLOYED STEEL

STANDARD	EN 10149-2																																																
IDENTIFICATION NUMBER	1.0980																																																
CLASSIFICATION	Quality Steel																																																
TYPE	Alloyed Steel																																																
ROLLING STATE	AR - Rolling blank																																																
BRIEF DESCRIPTION	High-yield strength steel for forming, bending, and deep drawing. This is a fine-grain steel with low sulphur content and reduced inclusion content.																																																
APPLICATIONS	Transport vehicles, containers, tanks, agricultural machinery, profiles.																																																
STANDARD COIL STOCK RANGE	<table border="1"> <thead> <tr> <th>S420MC black</th> <th>1500</th> <th>S420MC dec.</th> <th>1500</th> </tr> </thead> <tbody> <tr><td>2</td><td>•</td><td>2</td><td>•</td></tr> <tr><td>3</td><td>•</td><td>3</td><td>•</td></tr> <tr><td>4</td><td>•</td><td>4</td><td>•</td></tr> <tr><td>5</td><td>•</td><td>5</td><td>•</td></tr> <tr><td>6</td><td>•</td><td>6</td><td>•</td></tr> <tr><td>7</td><td>•</td><td>7</td><td>•</td></tr> <tr><td>8</td><td>•</td><td>8</td><td>•</td></tr> <tr><td>10</td><td>•</td><td>10</td><td>•</td></tr> <tr><td>12</td><td>•</td><td>12</td><td>•</td></tr> <tr><td>15</td><td>•</td><td></td><td></td></tr> <tr><td>20</td><td>•</td><td></td><td></td></tr> </tbody> </table>	S420MC black	1500	S420MC dec.	1500	2	•	2	•	3	•	3	•	4	•	4	•	5	•	5	•	6	•	6	•	7	•	7	•	8	•	8	•	10	•	10	•	12	•	12	•	15	•			20	•		
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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>≤ 0.120</td> <td>≤ 0.50</td> <td>≤ 1.60</td> <td>≤ 0.025</td> <td>≤ 0.015</td> <td>≥ 0.015</td> <td>≤ 0.090</td> <td>≤ 0.15</td> <td>≤ 0.20</td> <td>≤ 0.150</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>* = $(Nb + Ti + V) \leq 0.22$ (%) 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 (%)	≤ 0.120	≤ 0.50	≤ 1.60	≤ 0.025	≤ 0.015	≥ 0.015	≤ 0.090	≤ 0.15	≤ 0.20	≤ 0.150		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 UNI EN 10163-2</p>																																																
CERTIFICATIONS	EN10204-3.1																																																