

CORTEN A[®]

STEEL RESISTANT TO CORROSION CAUSED BY ATMOSPHERIC EVENTS.

STANDARD	USX CORP (proprietary)																																												
IDENTIFICATION NUMBER	-																																												
CLASSIFICATION	-																																												
TYPE	Unalloyed Steel																																												
ROLLING STATE	AR - Rolling blank																																												
BRIEF DESCRIPTION	Structural steel resistant to atmospheric corrosion, slightly oiled for surface protection. Anti-corrosive properties. Corrosion resistant steels slow down the deterioration of chimneys and flues.																																												
APPLICATIONS	Architectural façades, chimneys, bridges, containers, industrial tanks and filters.																																												
STANDARD COIL STOCK RANGE	<table border="1"> <thead> <tr> <th>Corten A</th> <th>1250</th> <th>1500</th> </tr> </thead> <tbody> <tr> <td>0.6</td> <td></td> <td>•</td> </tr> <tr> <td>0.8</td> <td>•</td> <td>•</td> </tr> <tr> <td>1</td> <td>•</td> <td>•</td> </tr> <tr> <td>1.2</td> <td>•</td> <td>•</td> </tr> <tr> <td>1.5</td> <td>•</td> <td>•</td> </tr> </tbody> </table>	Corten A	1250	1500	0.6		•	0.8	•	•	1	•	•	1.2	•	•	1.5	•	•																										
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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>≤ 0.12</td> <td>≤ 0.75</td> <td>≤ 0.50</td> <td>≤ 0.15</td> <td>≤ 0.03</td> <td>≤ 0.06</td> <td></td> <td></td> <td></td> <td></td> <td>≤ 0.55</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>≤ 1.25</td> <td>≤ 0.65</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>$C.E.V. (%) = C + (Mn/6) + [(Cr+Mo+V)/5] + [(Ni+Cu)/15]$</p>	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Al (%)	Nb (%)	Ti (%)	V (%)	Mo (%)	Cu (%)	≤ 0.12	≤ 0.75	≤ 0.50	≤ 0.15	≤ 0.03	≤ 0.06					≤ 0.55	Cr (%)	Ni (%)	N (%)	B (%)	Nb+Ti+V (%)	Cr+Mo+Ni (%)	Ni+Cr+Cu+Mo (%)	C.E.V. (%)	≤ 1.25	≤ 0.65												
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TOLERANCES	Tolerances on the dimensions and on the shape EN10131 : 2006																																												
CERTIFICATIONS	Proprietary standard																																												