# INDATEN®355WP

STEEL RESISTANT TO CORROSION CAUSED BY ATMOSPHERIC EVENTS.

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|---|---|
| STANDARD | EN 10025-5 |
| IDENTIFICATION NUMBER | 1.8946 |
| CLASSIFICATION | Special structural steel |
| TYPE | Alloy steel resistant to atmospheric corrosion Steel |
| ROLLING STATE | AR - Rolling blank |
| BRIEF DESCRIPTION | High-strength weathering structural steel designed to provide excellent resistance to atmospheric corrosion. Thanks to alloying elements such as copper, chromium and phosphorus, it naturally develops a protective surface layer that reduces the corrosion rate and increases the service life of the component. |
| APPLICATIONS | Architectural facades, urban furniture, infrastructure projects and applications exposed to atmospheric conditions. |

STANDARD COIL STOCK RANGE

| INDATEN®355WP | 1250 | 1500 |
|---|---|---|
| 0.6 | | • |
| 0.8 | • | • |
| 1 | • | • |
| 1.2 | • | • |
| 1.5 | • | • |

CHEMICAL COMPOSITION

Regulatory standard

| C (%) | Si (%) | Mn (%) | P (%) | S (%) | Al (%) | Nb (%) | Ti (%) | V (%) | Mo (%) | Cu (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| ≤ 0.12 | 0.25-0,75 | ≤ 1.00 | 0.06-0.15 | ≤ 0.03 | | | | | | 0.25-0.55 |

| Cr (%) | Ni (%) | N (%) | B (%) | Nb+Ti+V (%) | Cr+Mo+Ni (%) | Ni+Cr+Cu+Mo (%) | C.E.V. (%) |
|---|---|---|---|---|---|---|---|
| 0.30-1.25 | ≤ 0.65 | | | | | | |

*C.E.V. (%) = C+(Mn/6)+[(Cr+Mo+V)/5]+[(Ni+Cu)/15]*

MECHANICAL PROPERTIES

According to UNI EN 10028

| Mechanical characteristics | Direction | Thicknesses | Values |
|---|---|---|---|
| $R_e$ (MPa) | T | ≤ 3 | ≥ 355 |
| $R_m$ (MPa) | T | ≤ 3 | 510-680 |
| $A_{80}$ (%) | | | |
| $A_5$ (%) | T | ≤ 3 | ≥ 20 |
| Bend Test 180° | | | |
| KV 20°C (J) | | | |
| KV 0°C (J) | | | |
| KV -20°C (J) | | | |
| KV -40°C (J) | | | |
| KV -50°C (J) | | | |

** = Standard option*
*t = thickness in mm of the test piece for the bend test*
*L = Tensile testing carried out on longitudinal test pieces*
*T = Bend tests carried out on cross-cut test pieces*

TOLERANCES

Dimensions and shape: EN 10051

Surface quality: EN 10163-2

CERTIFICATIONS

EN 10204 - 3.1



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