

Material properties



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|--------------------|---|
| Material | S 355 MC (European Union / EN) |
| Group | Structural and constructional steels |
| Subgroup | EN 10149-2 Hot-rolled flat products made of high yield strength steels for cold forming |
| Comment | Delivery conditions for thermomechanically rolled steels |
| Application | - |

| Yield Stress[MPa] | | | |
|---|-----|-----|--------|
| Dimension | Min | Max | Approx |
| Flat products; Thermomechanically rolled; < 3 mm | 355 | - | - |
| Flat products; Thermomechanically rolled; >= 3 mm | 355 | - | - |

| Tensile Stress[MPa] | | | |
|---|-----|-----|--------|
| Dimension | Min | Max | Approx |
| Flat products; Thermomechanically rolled; < 3 mm | 430 | 550 | - |
| Flat products; Thermomechanically rolled; >= 3 mm | 430 | 550 | - |

| Elongation A5 [%] | | | |
|---|------|-----|--------|
| Dimension | Min | Max | Approx |
| Flat products; Thermomechanically rolled; < 3 mm | 19.0 | - | - |
| Note: Lo = 80 mm | | | |
| Flat products; Thermomechanically rolled; >= 3 mm | 23.0 | - | - |

| Chemical Composition [%] | | | |
|--------------------------|--------|--------|--------|
| Criterion | Min | Max | Approx |
| C | - | 0.1200 | - |
| Si | - | 0.5000 | - |
| Mn | - | 1.5000 | - |
| P | - | 0.0250 | - |
| S | - | 0.0200 | - |
| V | - | 0.2000 | - |
| Ti | - | 0.1500 | - |
| Nb | - | 0.0900 | - |
| Al | 0.0150 | - | - |

Chemical Composition [%]

| Criterion | Min | Max | Approx |
|-----------|-----|--------|--------|
| Nb+Ti+V | - | 0.2200 | - |

Cross Reference Table

| Material | Standard | Country |
|------------------------|----------|----------------|
| E 355 D | AFNOR NF | France |
| S 355 MC (QStE 360 TM) | DIN | Germany |
| 1.0976 | EN | European Union |
| FeE 355-TM | EN | European Union |
| S 355 MC | UNI | Italy |
| Fe E 355 TM | UNI | Italy |
| 1.0976 | WN | Germany |