

Core 439M

General characteristics Typical applications

Products & dimensions

Cold rolled products, available dimensions (mm)

| Surface finish | | Coil / Strip | | Plate / Sheet | |
|----------------|---|--------------|---------|---------------|---------|
| | | Thickness | Width | Thickness | Width |
| 2B | Cold rolled, heat treated, pickled, skin passed | 0.33-3.58 | 12-1524 | 0.33-3.58 | 18-1524 |
| 2E | Cold rolled, heat treated, mech. desc. pickled | 0.33-3.58 | 12-1524 | 0.33-3.58 | 18-1524 |
| 2F | Cold rolled, heat treated, skin passed | 0.33-3.58 | 12-1524 | 0.33-3.58 | 18-1524 |
| 2G | Ground | 0.53-3.58 | 12-1524 | 0.53-3.58 | 18-1524 |
| 2K | Satin finish | 0.53-3.58 | 12-1524 | 0.53-3.58 | 18-1524 |

Continuous hot rolled products, available dimensions (mm)

| Surface finish | | Coil / Strip | | Plate / Sheet | |
|----------------|-----------------------------------|--------------|----------|---------------|----------|
| | | Thickness | Width | Thickness | Width |
| 1D | Hot rolled, heat treated, pickled | 4.76-6.36 | 400-1524 | 4.76-6.36 | 400-1524 |

Chemical composition

| | C | Mn | Cr | Ni | Mo | N | Other |
|---------|------|----|------|----|----|---|-------|
| Typical | 0.02 | | 17.6 | | | | Ti Nb |

Corrosion resistance

| Pitting corrosion resistance | | Crevice corrosion resistance |
|------------------------------|-----|------------------------------|
| PRE | CPT | CCT |
| 18 | | |

Mechanical properties

| Cold rolled coil and sheet | R _{p0.2} MPa | R _{p1.0} MPa | R _m MPa | Elongation ¹⁾ % | Impact strength J | Rockwell | HB | HV |
|----------------------------|--------------------------|--------------------------|-----------------------|-------------------------------|----------------------|----------|----|----|
| Typical (thickness 1 mm) | 323 | | 459 | | | | | |

Physical properties

| Density kg/dm ³ | Modulus of elasticity GPa | Thermal exp. at 100 °C 10 ⁻⁶ /°C | Thermal conductivity W/m°C | Thermal capacity J/kg°C | Electrical resistance μΩm | Magnetizable |
|-------------------------------|---------------------------------|---|----------------------------------|-------------------------------|---------------------------------|--------------|
| 7.7 | 220 | 10 | 25 | 460 | 0.6 | Yes |

Fabrication

Standards & approvals

| Standard | Designation |
|----------|-------------|
|----------|-------------|

Contacts & Enquiries

Contact your nearest sales office

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