

ASTM A 242 TYPE 1 steel plate/sheet for steel resistant to tmospherical corrosion steels

ASTM A 242 TYPE 1 steel plate/sheet, ASTM A 242 TYPE 1 steel plate/sheet, under ASTM standard, we can regard A 242 TYPE 1 steel plate/sheet for steel resistant to Atmospheric corrosion steels.

ASTM A 242 TYPE 1 steel grade is a hot rolled products of structural steels in technical delivery conditions with improved atmospheric corrosion resistance. The steel grade in S235 a maximum carbon equivalent value of 0.44% and for grade s355 a maximum carbon equivalent value of 0.52% based on the ladle analysis shall for all thickness. The followings are the chemical composition and mechanical properties of ASTM A 242 TYPE 1 steel plate.

The chemical composition of ASTM A 242 TYPE 1 steel plate,by max %

| Grade | C | Mn | Cr | Si | N | S | Cu | P |
|--------------|------|-----|-----------|-----|------|------------|-----------|-----------|
| A 242 TYPE 1 | 0.15 | 1.1 | 0.25-1.35 | 0.8 | 0.01 | 0.04-0.035 | 0.20-0.60 | 0.05-0.16 |

The mechanical properties of ASTM A 242 TYPE 1 steel plate

| Grade | Yield Strength Min. [MPa] Nominal Thickness (mm) | | | | | | Tensile Strength [MPa] Nominal Thickness(mm) | | | Impact Degraa [J] | |
|-----------------|---|-----|-----|-----|------|------|---|---------|------|----------------------|----|
| | ≤16 | >16 | >40 | >63 | >80 | >100 | ≤3 | >3 | >100 | -20 | 27 |
| A 242 TYPE 1 | ≤40 | ≤40 | ≤63 | ≤80 | ≤100 | ≤150 | 510-680 | 470-630 | ≤150 | | |
| | 355 | 345 | - | - | - | - | | | - | | |

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