

# ST 35/ST 35.8 TUBE SPECIFICATIONS

## GENERAL CHARACTERISTICS

DIN 17175/ [ST 35.8 tubes](#) apply to seamless tubes including tubes for headers of heat-resistant steels according to standards which are used in the construction of boilers, pipe-lines, pressure vessels, and equipment for service up to 600°C and simultaneous high pressures, where the total stress and the relevant scaling conditions can raise or lower the temperature limit. The DIN 2391 tubes shall be manufactured from cold drawn or cold rolled processes.

## MANUFACTURING:

Tubes to this standard shall be manufactured by hot or cold rolling, hot pressing, and hot or cold drawing. The steels used for tubes shall be made by the oxygen blowing process, the open-hearth furnace, or the electric furnace. All steels shall be killed.

## SURFACE TREATMENT:

Antirust oil-dip, Varnish, Passivation, Phosphating, Shot Blasting

## ST 35/ ST 35.8 CHEMICAL COMPOSITION FOR TUBE:

| Designation   | Standard  |     | %C   | %Mn  | %S    | %P    | %Si  |
|---------------|-----------|-----|------|------|-------|-------|------|
| ST 35 Tubes   | DIN 2391  | Min | --   | 0.40 | --    | --    | --   |
|               |           | Max | 0.17 | --   | 0.025 | 0.025 | 0.35 |
| ST 35.8 Tubes | DIN 17175 | Min | --   | 0.40 | --    | --    | 0.10 |
|               |           | Max | 0.17 | 0.80 | 0.040 | 0.040 | 0.35 |

**MECHANICAL PROPERTIES OF ST 35/ST 35.8 TUBE:**

| Mechanical properties | Standard  | Tensile Strength (MPA) | Yield Strength (MPA) | Elongation (%) |
|-----------------------|-----------|------------------------|----------------------|----------------|
| ST 35 Tubes           | DIN 2391  | 340-470                | ≥235                 | ≤ 25           |
| ST 35.8 Tubes         | DIN 17175 | 360-480                | ≥235                 | ≥21            |

**APPLICATIONS:**

- Used in Hydraulic & pneumatic cylinders, Mechanical and Automotive engineering.
- Apply to the Precision steel tubes used.
- For high middle, low-pressure boiler and pressure purpose.

For more details visit: [ST 35 Tubes Supplier](#)

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