

GOST 9941 08 X 18 H 10 Seamless Stainless Steel Pipe

Manufacturer & Supplier

We are a reliable manufacturer and supplier of **GOST 9941 08X18H10 seamless stainless steel pipes**, widely used for **heat exchangers, pressure vessels, and process piping** in chemical, petrochemical, and power industries.

Our GOST 9941 pipes are produced through **cold-drawn or hot-rolled processes** and meet the highest standards for **corrosion resistance and mechanical strength**.

Standard & Grade

Standard: GOST 9941-81 – *Seamless stainless steel pipes for heat-exchanger and general use*

Steel Grade: 08X18H10 (equivalent to AISI 304 / EN 1.4301)

Delivery Condition: Cold-drawn (BK), Cold-rolled (BKM), or Annealed (AT)

Chemical Composition (%)

| Element | C | Si | Mn | Cr | Ni | S | P |
|---------|--------|-------|-------|-------------|------------|--------|---------|
| Content | ≤ 0.08 | ≤ 0.8 | ≤ 2.0 | 17.0 – 19.0 | 9.0 – 11.0 | ≤ 0.02 | ≤ 0.035 |

Note: The composition ensures excellent corrosion resistance and good weldability.

Mechanical Properties (Typical Values)

| Property | Requirement |
|------------------|-------------|
| Tensile Strength | ≥ 520 MPa |
| Yield Strength | ≥ 205 MPa |
| Elongation | ≥ 40% |
| Hardness | ≤ 200 HB |

◆◆ Dimensional Range

| Process | Outside Diameter (mm) | Wall Thickness (mm) | Length |
|------------|-----------------------|---------------------|------------|
| Cold Drawn | 6 – 114 | 0.5 – 6.0 | Up to 12 m |
| Hot Rolled | 57 – 325 | 3.0 – 20 | Up to 12 m |

Tolerances: According to GOST 9941-81 (Precision: Normal, High, or Increased)

Heat Treatment

Pipes are **solution annealed at 1050–1100°C**, followed by **rapid cooling** to ensure corrosion resistance and structural stability.

Testing & Inspection

Hydrostatic Test or Eddy Current Test

Visual and Dimensional Check

PMI (Positive Material Identification)

Intergranular Corrosion Test (per GOST 6032)

EN 10204 Type 3.1 MTC available

Applications

Heat exchangers and condensers

Chemical and food processing pipelines

Cryogenic and pressure vessels

Pharmaceutical and clean gas systems

Marine and seawater equipment

❖❖ Packaging

Plastic end caps and steel-strapped bundles

Marked with grade, standard, size, and heat number

Export seaworthy wooden boxes or steel frame packaging

Equivalent Grades

| GOST | AISI / ASTM | EN | UNS |
|--------------|------------------|--------|--------|
| 08 X 18 H 10 | 304 / A312 TP304 | 1.4301 | S30400 |

Order Example

Product: GOST 9941 08X18H10 Seamless Stainless Steel Pipe

OD x WT: 76 x 4 mm

Length: 6 m

Delivery Condition: Annealed (AT)

Standard: GOST 9941-81

Quantity: 3.5 tons

Testing: Hydrostatic + PMI

Certification: EN 10204 3.1

