

10CrMo9-10

Creep-resistant alloy steel · Material no. 1.7380

10CrMo9-10 (2.25 % Cr – 1 % Mo) is a high-temperature chromium-molybdenum steel for power plants, refineries and petrochemicals at high temperatures.

1.7380 MATERIAL NO.	≥ 280 MPa YIELD STRENGTH RP0.2 (T ≤ 16 MM)	480–630 MPa TENSILE STRENGTH RM	~ 600 °C SERVICE TEMP.
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Application

- Superheater and steam lines in power plants
- Refinery and petrochemical plants
- High-temperature pressure vessels

Chemical composition (typical, wt.-%, per EN)

Element	Content (%)
C	0.08–0.14
Si	≤ 0.50
Mn	0.40–0.80
P	≤ 0.020
S	≤ 0.010
Cr	2.00–2.50
Mo	0.90–1.10

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2 (t ≤ 16 mm)	≥ 280 MPa
Tensile strength Rm	480–630 MPa
Elongation A	≥ 20 %
Impact energy KV	≥ 40 J

Standards & supply

Topic	Detail
Standards	EN 10216-2, EN 10028-2
ASME/ASTM equivalent	= ASTM A335 P22 · A182 F22
Short name / aka	2 ¹ / ₄ Cr-1Mo · A335 P22
Product forms	Pipes, flanges, fittings – seamless/welded, EN 10204 3.1/3.2 mill certificate

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All data are typical values per the relevant EN standards for first orientation – without warranty. The applicable standard and the mill certificate of the delivery are decisive.