

13CrMo4-5

Creep-resistant alloy steel · Material no. 1.7335

13CrMo4-5 is a chromium-molybdenum creep-resistant steel for higher temperatures than 16Mo3 – for boilers, superheaters and steam lines in power plants.

1.7335 MATERIAL NO.	≥ 290 MPa YIELD STRENGTH RP0.2 (T ≤ 16 MM)	440–590 MPa TENSILE STRENGTH RM	~ 570 °C SERVICE TEMP.
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Application

- Superheater and boiler tubes
- Steam and live-steam lines
- Pressure vessels in power and plant engineering

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

Element	Content (%)
C	0.10–0.17
Si	≤ 0.35
Mn	0.40–1.00
P	≤ 0.025
S	≤ 0.010
Cr	0.70–1.15
Mo	0.40–0.60

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2 (t ≤ 16 mm)	≥ 290 MPa
Tensile strength Rm	440–590 MPa
Elongation A	≥ 22 %
Impact energy KV	≥ 40 J

Standards & supply

Topic	Detail
Standards	EN 10216-2, EN 10028-2
ASME/ASTM equivalent	~ ASTM A335 P11/P12
Short name / aka	Chrom-Molybdän-Stahl
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.