

P355GH

Unalloyed boiler steel · Material no. 1.0473

P355GH is a high-strength unalloyed creep-resistant steel – for higher-loaded pressure vessels, boilers and piping at moderate temperatures.

1.0473 MATERIAL NO.	≥ 355 MPa YIELD STRENGTH RP0.2 (T ≤ 16 MM)	510–650 MPa TENSILE STRENGTH RM	~ 400 °C SERVICE TEMP.
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Application

- Highly loaded pressure vessels and steam boilers
- Piping for steam and water
- Plant and apparatus engineering

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

Element	Content (%)
C	≤ 0.22
Si	≤ 0.60
Mn	1.10–1.70
P	≤ 0.025
S	≤ 0.015
Mo	≤ 0.08

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2 (t ≤ 16 mm)	≥ 355 MPa
Tensile strength Rm	510–650 MPa
Elongation A	≥ 22 %
Impact energy KV	≥ 40 J

Standards & supply

Topic	Detail
Standards	EN 10028-2, EN 10216-2
ASME/ASTM equivalent	~ ASTM A516 Gr. 70
Short name / aka	C-Stahl · warmfest · höherfest
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.