

P235GH

Unalloyed boiler steel · Material no. 1.0345

P235GH is an unalloyed creep-resistant steel for pressure vessels and piping – the standard grade for water, steam and heating lines at moderate temperatures.

1.0345 MATERIAL NO.	≥ 235 MPa YIELD STRENGTH RP0.2 (T ≤ 16 MM)	360–500 MPa TENSILE STRENGTH RM	~ 400 °C SERVICE TEMP.
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Application

- Piping for water, steam and heating
- Pressure vessels and boilers
- Plant and apparatus engineering

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

Element	Content (%)
C	≤ 0.16
Si	≤ 0.35
Mn	0.40–1.20
P	≤ 0.025
S	≤ 0.015
Cr	≤ 0.30
Mo	≤ 0.08
Ni	≤ 0.30

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2 (t ≤ 16 mm)	≥ 235 MPa
Tensile strength Rm	360–500 MPa
Elongation A	≥ 25 %
Impact energy KV	≥ 40 J

Standards & supply

Topic	Detail
Standards	EN 10216-2 (seamless tubes), EN 10028-2 (plate)
ASME/ASTM equivalent	~ ASTM A106 Gr. A/B · A516
Short name / aka	C-Stahl · warmfest
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.