

P265GH

Unalloyed boiler steel · Material no. 1.0425

P265GH is an unalloyed creep-resistant steel with higher strength than P235GH – for pressure vessels, boilers and piping at moderate temperatures.

1.0425 MATERIAL NO.	≥ 265 MPa YIELD STRENGTH RP0.2 (T ≤ 16 MM)	410–570 MPa TENSILE STRENGTH RM	~ 400 °C SERVICE TEMP.
-------------------------------	---	---	----------------------------------

Application

- Higher-loaded piping for steam and water
- Pressure vessels and steam boilers
- Plant and apparatus engineering

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

Element	Content (%)
C	≤ 0.20
Si	≤ 0.40
Mn	0.50–1.40
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)	≥ 265 MPa
Tensile strength Rm	410–570 MPa
Elongation A	≥ 23 %
Impact energy KV	≥ 40 J

Standards & supply

Topic	Detail
Standards	EN 10216-2, EN 10028-2
ASME/ASTM equivalent	~ ASTM A106 Gr. B · A516 Gr. 70
Short name / aka	C-Stahl · warmfest
Product forms	Pipes, flanges, fittings – seamless/welded, EN 10204 3.1/3.2 mill certificate

ROHRLINE · Gewerbering 19/1/6, 3484 Grafenwörth, Austria · +43 (0) 664 1203063 · office@rohrline.at · rohrline.at/en/werkstoff-p265gh.html

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.