EHG STEEL.METAL

1963/2023

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P250GH+N (C22.8)

Heat-resistant structural steel for pressure vessels.

Steel P250GH+N (material number 1.0460) is a de-oxidised, non-alloyed, high-grade structural steel. With a wide range of applications from -10 to +480°C, it is ideally used for pressure purposes. Thanks to its metallurgical properties, it can be welded easily. It is used mainly in valve construction, typically for making the flanges, sleeves, valves or ball valves. The steel is available directly from stock as crude, rolled, normalised round steel in various diameters.

Your benefits

- High heat resistance
- Good weldability
- No subsequent heat treatment required

EHG product range

Product range

Profile	Variant	Standard/regulation
Round, ø 25–120 mm	crude, rolled, normalised	DIN EN 10273, incl. 3.1 Test certificate with AD2000-W13

Temperature information

Application temperature	Hot forming working temperature
-10 to +480°C	850 to 1100°C

Mechanical properties

Tensile strength (RM)	Yield strength (Re)	Elongation (A5)	Notched bar impact work (longitudinal test)
410–540 N/mm²	≥ 230 N/mm²	≥ 25%	-20°C: ≥ 27 joules 0°C: ≥ 40 joules +20°C: ≥ 47 joules

Chemical composition

Element	Percentage
Aluminium (Al)	≥ 0.02%
Carbon (C)	0.18–0.23%
Chromium (Cr)	≤ 0.30%
Copper (Cu)	≤ 0.30%
Manganese (Mn)	0.30–0.90%
Molybdenum (Mo)	≤ 0.08%
Niobium (Nb)	≤ 0.02%
Nickel (Ni)	≤ 0.30%
Phosphorus (P)	≤ 0.025%
Sulphur (S)	≤ 0.015%
Silicon (Si)	≤ 0.40%
Titanium (Ti)	≤ 0.03%
Vanadium (V)	≤ 0.02%

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