

P355NL2

Low-temperature fine-grain steel · Material no. 1.0566

P355NL2 is a low-temperature-tough fine-grain steel for pressure applications at low temperatures – with guaranteed impact toughness down to –50 °C.

1.0566 MATERIAL NO.	≥ 355 MPa YIELD STRENGTH RP0.2 (T ≤ 16 MM)	490–630 MPa TENSILE STRENGTH RM	tough to ~ –50 °C SERVICE TEMP.
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Application

- Pressure vessels and piping at low temperatures
- Refrigeration and low-temperature plants
- LPG and process plants

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

Element	Content (%)
C	≤ 0.18
Si	≤ 0.50
Mn	0.90–1.65
P	≤ 0.020
S	≤ 0.010
Ni	≤ 0.50

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2 (t ≤ 16 mm)	≥ 355 MPa
Tensile strength Rm	490–630 MPa
Elongation A	≥ 22 %
Impact energy KV (–50 °C)	≥ 27 J

Standards & supply

Topic	Detail
Standards	EN 10028-3, EN 10216-4
ASME/ASTM equivalent	~ ASTM A333 / A537
Short name / aka	Feinkornbaustahl · Tieftemperatur
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.