

S355J2H

Unalloyed structural steel · Material no. 1.0576

S355J2H is a higher-strength structural steel for hot-finished hollow sections and structural tubes – with guaranteed toughness down to –20 °C.

1.0576 MATERIAL NO.	≥ 355 MPa YIELD STRENGTH REH (T ≤ 16 MM)	470–630 MPa TENSILE STRENGTH RM	structural, not creep-resistant SERVICE TEMP.
---	--	---	---

Application

- Load-bearing structural tubes and hollow sections
- Pipe bridges, scaffolding, steelwork
- Machine and plant engineering

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

Element	Content (%)
C	≤ 0.22
Si	≤ 0.55
Mn	≤ 1.60
P	≤ 0.030
S	≤ 0.030
N	≤ 0.012

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength ReH (t ≤ 16 mm)	≥ 355 MPa
Tensile strength Rm	470–630 MPa
Elongation A	≥ 22 %
Impact energy KV (–20 °C)	≥ 27 J

Standards & supply

Topic	Detail
Standards	EN 10210-1 / EN 10219-1 (hollow sections), EN 10025-2
ASME/ASTM equivalent	~ ASTM A500 / A572
Short name / aka	Hohlprofil · S355 · höherfest
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-s355j2h.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.