

1.4410 (Super-Duplex)

Duplex steel · Material no. 1.4410

1.4410 is a super-duplex steel with the highest strength and resistance to pitting and crevice corrosion – for the most aggressive chloride and seawater applications.

1.4410 MATERIAL NO.	≥ 530 MPa YIELD STRENGTH Rp0.2	730–930 MPa TENSILE STRENGTH RM	~ -50 to 250 °C SERVICE TEMP.
-------------------------------	--	---	---

Application

- Offshore and seawater technology
- Seawater desalination
- Aggressive chemicals with high chloride load

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

Element	Content (%)
C	≤ 0.030
Cr	24.0–26.0
Ni	6.0–8.0
Mo	3.0–4.5
N	0.24–0.35

Mechanical properties (typical at RT, per EN)

Property	Value
Yield strength Rp0.2	≥ 530 MPa
Tensile strength Rm	730–930 MPa
Elongation A	≥ 20 %

Standards & supply

Topic	Detail
Standards	EN 10216-5, EN 10088
ASME/ASTM equivalent	~ UNS S32750
Short name / aka	X2CrNiMoN25-7-4 · 2507 · UNS S32750

Topic	Detail
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-1.4410.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.