

Brand name | URANUS 52 N, Ferrinox 255

Trade name | Alloy F255, Super Duplex

Material No.	EN Designation	UNS	Alloy
1.4507	X2CrNiMoCuN25-6-3	S32520	F255

Description | 1.4507 / Alloy F255 is a SUPER-DUPLEX chromium-nickel stainless steel with copper in addition.

Special properties | Excellent corrosion resistance in a wide variety of corrosive chemicals including sulphuric, phosphoric and nitric acids.





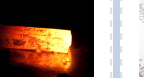

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.03	0.70	2.00	0.035	0.015
Cr %	Mo %	Ni %	N %	Cu %
24.0-26.0	3.00-4.00	6.00-8.00	0.20-0.30	1.00-2.50

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
270	550	≥ 760	25	190

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
7.85	500	18	0.95

Suitable welding filler materials | 1.4507

Application | Chemical industry, oil and petrochemical industry

Sheets/Plates	Bars	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
					

Available forms for 1.4507 / ALLOY F255