

Brand name | SAF 2304®

Trade name | Alloy 2304, Lean Duplex

Material No.	EN Designation	UNS	Alloy
1.4362	X2CrNiN23-4	S32304	2304

Description | 1.4362 / Alloy 2304 is an austenitic-ferritic chromium-nickel stainless steel.

Special properties | 1.4362 is part of DUPLEX-stainless steels. The yield strength is significant higher than standard austenitic steels. Unique combination of corrosion resistance, resistance to stress corrosion cracking , high tensile and yield strength.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.030	1.00	2.00	0.035	0.015
Cr %	Mo %	Ni %	N %	Cu %
22.0-24.0	0.10-0.60	3.50-5.50	0.05-0.20	0.10-0.60

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
260	400	600-830	25	200

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
7.8	500	15	0.8

Suitable welding filler materials | 1.4462

Application | Construction of apparatus

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