

Brand name | SAF 2304®

Trade name Alloy 2304, Lean Duplex

Standards	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.

Chemical Composition

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

Mechanical Properties 20°C

Hardness HB 30 < HB 260	0.2% Yield strength R _p > N/mm ² 400	Tensile strength R _m N/mm ² 600-830	Elongation A _s > % 25	Modulus of elasticity kN/mm ² 200
-------------------------	--	---	----------------------------------	--

Physical Properties 20°C

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

Suitable welding filler materials 1.4462

Application | Construction of apparatus

Available forms for 1.4362 / ALLOY 2304

