1.4835 ALLOY 253 MA

Brand name

Avesta® 253 MA

Trade name

Alloy 253 MA

Standards

Material No.	EN Designation	UNS	Alloy
1.4835	X9CrNiSiNCe21-11-2	S30815	253 MA

Description

Alloy 253 MA / 1.4835 is a heat resistant austenitic chromium-nickel-stainless steel.

Special properties

Resistant to scaling up to 1150°C. Low resistance to oxidizing sulphuric gases.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.05-0.12	1.40-2.50	1.00	0.045	0.015
Cr %	**Ni %**	**N %**	**Ce %**	
20.0-22.0	10.0-12.0	0.12-0.20	0.03-0.08	

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Resistant on air up to °C
210	310	650-850	40	1150
Modulus of elasticity kN/mm²				
200				

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm²/m
7.8	500	15	0.85

Suitable welding filler materials

1.4842

Application

Furnaces and furnace components, oil industry

Available forms for 1.4835 / ALLOY 253 MA

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

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