

Alleima® 8R41

Tube and pipe, seamless

Datasheet

Alleima® 8R41 is a niobium-stabilized austenitic stainless steel.

Standards

- EN Number: 1.4961
- EN Name: X8CrNiNb16-13
- W.Nr.: 1.4961
- DIN: X 8 CrNiNb 16 13

Chemical composition (nominal)

Chemical composition (nominal) %

C	Si	Mn	P	S	Cr	Ni
0.06	0.4	1.3	≤0.020	≤0.015	16.5	13

Others
Nb=0.70

Mechanical properties

At 20°C (68°F)

Proof strength		Tensile strength		Elong.
$R_{p0.2}^{a)}$		R_m		$A^{b)}$
MPa	ksi	MPa	ksi	%
≥205	≥30	510-690	74-100	≥35

1 MPa = 1 N/mm²

a) $R_{p0.2}$ and $R_{p1.0}$ correspond to 0.2% offset and 1.0% offset yield strength, respectively.

b) Based on $L_0 = 5.65 \sqrt{S_0}$ where L_0 is the original gauge length and S_0 the original cross-section area.

Disclaimer:

Recommendations are for guidance only, and the suitability of a material for a specific application can be confirmed only when we know the actual service conditions. Continuous development may necessitate changes in technical data without notice. This datasheet is only valid for Alleima materials.