EUROFLEX®

WE CREATE SOLUTIONS

17-7PH STAINLESS STEEL TUBING FOR MEDICAL APPLICATIONS

ASTM A313 (UNS S17700)

Chemical Composition

Carbon	max. 0,09 wt. -%
Silicon	max. 1,00 wt. -%
Manganese	max. 1,00 wt. -%
Phosphorus	max. 0,04 wt. -%
Sulfur	max. 0,03 wt. -%
Chromium	16,0 - 18,0 wt. -%
Nickel	6,5 - 7,75 wt. -%
Aluminium	0,75 - 1,50 wt. -%
Iron	balance

Physical Properties

Melting point	1435° C
Density	7,8 g/cm³
Youngs Moduls	200 GPa

Mechanical Properties (annealed Condition A)

Ultimate Tensile Strength	min. 850 MPa
Yield Strength	min. 250 MPa
Elongation	min. 20%

Microstructure

Grain Size	min. 7
Precipitation hardening	yes

Delivery Form

Tube, welded and multiple drawn, in fix- or fablength

Comments

Properties strongly depend on processing history and ambient temperature. Mechanical values listed above are typical for uniaxial tension. Upon request, we ca also deliver this material with other properties.

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