304 Stainless

Smiths Advanced Metals

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Weldable Stainless Steel Tube

Ideal for welding applications.

Type 304 stainless steel is an austenitic nickel alloy with minimal carbon content, making the material highly suitable for welding applications.

Our 304 stainless steel tubes offer good strength and good oxidation corrosion resistance with excellent formability and reasonable machinability. For applications requiring greater resistance to intergranular corrosion, we recommend 304L stainless since the product affords improved immunity in highly corrosive environments.

304 stainless steel is a highly versatile alloy finding use in applications, including heat exchangers, nuclear components and general engineering components.

Smiths Advanced Metals stocks 304 stainless steel tubes in seamless or welded form. Tubes from grade 304 are available in various sizes. We also provide a tube cutting service where we supply your tubular products to exact lengths.



Grades / Specifications

- AMS5566
- AMS5569
- ASTM A269
- ASTM A312
- ASTM A450
- MIL-T-6845, AMS-T-6845

Benefits

- Excellent corrosion resistance
- Excellent formability
- Excellent weldability
- Good strength

* Chen	nical Cor	mpositior	ា (weight %	6)							
	С	Cr	Mn	Si	Р	S	Ni	Мо	Cu	Fe	
min.		18.00					8.00				
Max.	0.08	20.00	2.00	0.75	0.040	0.030	12.00	0.75	0.75	Bal	

^{*} As per AMS 5566

* Mechanical Properti	es	Physical Properties	Physical Properties				
Tensile Strength Proof Stress Elongation	724 - 965 MPa 517 - 758 MPa 20% (min)	Density Melting Point Modulus of Elasticity Electrical Resistivity Thermal Conductivity Thermal Expansion	8.00 kg/m³ 1450 °C 193 GPa 0.072 x10 ⁻⁶ Ω.m 16.2 W/m.K 17.2 x10 ⁻⁶ /K				

^{*} Properties as per AMS 5566, Nominal OD over 4.78mm, all wall thickness's.

www. smiths advanced. com

info@smithsadvanced.com



Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB

Tel: +44 (0) 1767 604710



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