

Specification

finetron

For gas applications in semiconductor industry as well as in photovoltaics









1. SURFACES QUALITIES

Tubes and fittings:	Inner surface (bf)	Outer surface
finetron	Ra $_{avg.} \leq$ 0,40 μm (16 μin)	Ra $_{avg.} \le 1.0 \ \mu m$ (40 μin)
Additional notes:	 Tubes and fittings are prepared for orbital welding. Other specified surfaces or ends are available upon request. The Ra value in the cold worked area of fittings (inner and outer surface) and on the surface of circumferential welds is not defined. For dimensions OD < 3/8" (5.00 mm) roughness is not measured. Bright finished Surface treatment: Cleaning and test procedure ASTM A 632, S3 	

2. MATERIALS

Austenitic stainless steel tubes and fittings (seamless or welded / depending on diameter) in:
1.4404 / UNS S31603 (316L) 1.4435 / UNS S31603 (316L) UNS S31603 (316L)
- max. 180 HV* according to DIN EN ISO 6507-1 - max. 90 HRB* according to DIN EN ISO 6508-1

3. DIMENSIONS

Imperial:	according to ASTM A269 / A632	
OD x WT	1/4" to 6" (0.250 x 0.035 inch to 6.000 x 0.109 inch)	6,35 x 0,89 mm to 152,40 x 2,77 mm
Lenght	min. 19.36 ft to max. 19.98 ft	6000 mm -100/+90
Metric:		
OD x WT	6,00 x 1,00 mm to 35,00 x 1,50 mm	
Lenght	6000 mm -100/+90	
Manufacturing process:	Seamless tubes (≤ 1")	Welded or seamless tubes (> 1")

4. QUALITY AND TEST PROCEDURES



Verification of basic test certificate



Visual inspection



Endoscopic inspection of bright finished tubes



Verification of dimensions



Roughness measurements

5. TECHNICAL TERMS OF DELIVERY

Tubes and fittings are prepared for orbital welding:

Tubes

Acc. to ASTM A 632 / A 269 / A 270, DIN EN 10217-7 / 10216-5 with a length of 5900 - 6090 mm (max. 10% short lengths of min. 3000 mm possible).

Tube fitting components

Prematerial acc. to ASTM A 269 / A 632 / A 312 / A 403 (Pipe), DIN EN 10217-7 / 10216-5

Marking always with

DOCKWEILER / DW-Number / Dimension / Material / Heat number

Tubes and fittings shall be permanently marked as per Dockweiler guideline AA 8.5.2-80. The marking must provide all necessary information to trace back the heat number and the material grade.

6. DOCUMENTATION, PACKAGING AND SHIPPING

Documentation

The documentation result by the Dockweiler Inspection Certificate 3.1 according to DIN EN 10204.
Optional online documentation WebCert.

Packaging

Bright finished tubes and fittings are closed with transparent PE caps and are individually sealed in PE foil.

The batch label on the foil contains the information finetron.

Shipping

Delivery in tubular container or wooden crate, fittings in strong cardboard box with shock absorbing filler.

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