Widely used in production, process measurement and photovoltaic

1. SURFACES QUALITIES

Tubes and fittings:	Inner surface	Outer surface
TCC (bf)	Ra _{max.} ≤ 32 µin (0.8 µm)	Ra _{max.} ≤ 48 µin (1.2 µm)
Pipe and pipe fittings:	Inner surface	Outer surface
TCC (bf)	Ra _{max.} ≤ 32 µin (0.8 µm)	Ra _{max.} ≤ 48 µin (1.2 µm)
Additional notes:	 Tubes and fittings are prepared for orbital welding. Other specified surfaces or ends are available upon request. Pipes and fitting will be supplied with a square cut. Different end preparations may be agreed on. 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. Cleaning and test procedure ASTM A 632, S3 and ASTM G93 – level D. 	
2. MATERIALS		
	Austenitic stainless steel tubes and fitti	ngs (seamless or welded / depending on diameter)
TCC / TCC.1	1.4435 / UNS S31603 (316L) 1.4404 / UNS S31603 (316L) UNS S31603 (316L) UNS S30403 (304L)	

TCC

- max. 180 HV* according to DIN EN ISO 6507-1 Hardness equivalent to: - max. 90 HRB* according to DIN EN ISO 6508-1 * comparable to ASTM E-384 (HV) and ASTM E 18-22 (HRB)

3. DIMENSIONS

Imperial:	according to ASTM A269 / A270 / A632	
OD x WT	1/8" x 0.022" to 6" x 0.109"	3.18 x 0.56 mm to 152.4 x 2.77 mm
Length	min. 19.36 ft to max. 19.98 ft (6000 mm -100/+90)	
Pipe:	according to ASTM A312	
Dimensions	NPS 8, 10, 12, 16, 20 Schedule 10S	219,08 x 3,76 mm to 508,00 x 5,54 mm
Length	min. 19.36 ft to max. 19.98 ft (6000 mm -100/+90)	
Manufacturing process:	Seamless tubes (≤ 1/2")	Welded or seamless tubes (> 1/2")

bright finished

bf

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4. QUALITY AND TEST PROCEDURES

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Verification of basic test cert
Verification of dimensions



5. TECHNICAL TERMS OF DELIVERY

Tubes and fittings are prepared for orbital welding:

Tubes

According 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).

Fittings

According to DIN 11865, ASTM A 403 (Pipe), ASTM A 182 (Pipe)

Marking always with

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

Tube and fittings shall be permanently marked as per Shipping Dockweiler guideline AA 8.5.2-80. The marking must Delivery in tubular container or wooden crate, fittings in provide all necessary information to trace back the heat number and the material grade. strong cardboard box with shock absorbing filler.



	Documentation
t	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 sealed with white/ opaque PE caps and packaged in PE foil. The batch label contains the information TCC.

Anodically cleaned tubes and fittings are sealed with PE/ PA squares and white/opaque PE caps and packed in PE foil. The batch label contains the information TCC.1.