

Performance Test Report	Surface Roughness Test Report	Test Report No : 146614918/ORF Date : 29-10-2021	
Product : DAWSONS-TECH Ultra High Purity 'O' Ring Face Seal Fittings		Material : 316L	Page : 1 of 2

Order No. : 146614918

Name of Manufacturer : M/s. DAWSONS-TECH COMPONENTS LLP
 Unit No. DD - 6 & 7, Khan Real Industrial Estate,
 N. H. 08, Pelhar, Vasai Phata, Vasai (East),
 Dist. Palghar - 401208, Maharashtra.

Scope : Measurement of Surface Roughness of Internal Diameter of the Components.

Product : Ultra High Purity 'O' Ring Face Seal Fittings.

Size : 1/4" ORF, 1/2" ORF, 3/4" ORF and 1" ORF

Material of Construction : SS316L

Test Requirements

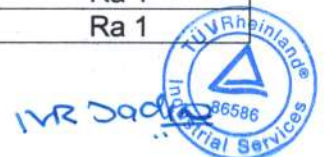
- Surface Roughness Checking Instrument : Pocket Surf, MAHRGMBH
- Required Ra Value on ID Surface : Ra10 Microinch
- Test Result Ra Value Tolerance : ± 2%
- Area of Surface to be Checked : Internal Diameter
- Set Stylus Travels Across the Surface : 5mm
- Temperature During the Inspection : 20° C
- Qty. of each item per size : 3 Nos.
- Calibrated Master Piece No. : PMD-90101
- Calibrated Master Piece Certificate No. : 256661
- Item to be Checked : Tube Adapter
- Checking Method : As per DAWSONS-TECH Roughness Procedure No. SRP-01-UHP

Test Result

Sr. No.	Size	Item P/N#	Required Ra Microinch Value	Observed Ra Microinch Value
1a	1/4" ORF	ORFTA-4-4-01	Ra 10 Microinch	Ra 2
1b	1/4" ORF	ORFTA-4-4-02	Ra 10 Microinch	Ra 2
1c	1/4" ORF	ORFTA-4-4-03	Ra 10 Microinch	Ra 2
2a	1/2" ORF	ORFTA-8-8-01	Ra 10 Microinch	Ra 1
2b	1/2" ORF	ORFTA-8-8-02	Ra 10 Microinch	Ra 1
2c	1/2" ORF	ORFTA-8-8-03	Ra 10 Microinch	Ra 1
3a	3/4" ORF	ORFTA-12-12-01	Ra 10 Microinch	Ra 1
3b	3/4" ORF	ORFTA-12-12-02	Ra 10 Microinch	Ra 1
3c	3/4" ORF	ORFTA-12-12-03	Ra 10 Microinch	Ra 1
4a	1" ORF	ORFTA-16-16-01	Ra 10 Microinch	Ra 1
4b	1" ORF	ORFTA-16-16-02	Ra 10 Microinch	Ra 1
4c	1" ORF	ORFTA-16-16-03	Ra 10 Microinch	Ra 1

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Note : The ID of 1/4" Fittings is 4.6mm. Hence, it is not possible to check with above Instrument. The Surface Roughness value mentioned for 1/4" Fittings are approximate by comparing the surface roughness of other sizes of parts.

Comments : Above results of Surface Roughness measurement found satisfactory.

For, **TUV Rheinland (India) Pvt. Ltd.**



Malcolm Dadina
(General Manager - Industrial Services)