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| Performance Test Report | Surface Roughness Test Report | Test Report No : 146614918/HPUTW Date : 29-10-2021 |
| Product : DAWSONS-TECH High Purity Weld 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 Weld Fittings.

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

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 : Automatic Tube Weld Union
- 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" | HPU-4ATW-01 | Ra 10 Microinch | Ra 2 |
| 1b | 1/4" | HPU-4ATW-02 | Ra 10 Microinch | Ra 2 |
| 1c | 1/4" | HPU-4ATW-03 | Ra 10 Microinch | Ra 2 |
| 2a | 1/2" | HPU-8ATW-01 | Ra 10 Microinch | Ra 1 |
| 2b | 1/2" | HPU-8ATW-02 | Ra 10 Microinch | Ra 1 |
| 2c | 1/2" | HPU-8ATW-03 | Ra 10 Microinch | Ra 1 |
| 3a | 3/4" | HPU-12ATW-01 | Ra 10 Microinch | Ra 1 |
| 3b | 3/4" | HPU-12ATW-02 | Ra 10 Microinch | Ra 1 |
| 3c | 3/4" | HPU-12ATW-03 | Ra 10 Microinch | Ra 1 |
| 4a | 1" | HPU-16ATW-01 | Ra 10 Microinch | Ra 1 |
| 4b | 1" | HPU-16ATW-02 | Ra 10 Microinch | Ra 1 |
| 4c | 1" | HPU-16ATW-03 | Ra 10 Microinch | Ra 1 |

TUV Rheinland (India) Pvt. Ltd.

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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.

MR Dadina 

Malcolm Dadina
(General Manager - Industrial Services)

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