SEMI F37-0318

Test Method For Determination Of Surface Roughness Parameters For Gas Distribution System Components

Test Report

Applicant Name: Linlin Xie

Product Name: 316L stainless steel products

BEIJING JU RUI ZHONG BANG HT-TECH CO.LTD

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Test Report

Applicant Name:	**Linlin Xie**
Applicant Address:	**No.1261, Enterprise Development Service Center, Xiji Town, Tongzhou District, Beijing**
Manufacturer:	**Precess (Beijing)Semiconductor Co.,Ltd.**
Product description:	**316L stainless steel products**
Product Number:	**1**
Trademark:	**/**
Report Number:	**MG20241230-25596-5**
Date of Issue:	**2024.12.31**

Evaluated by: **Reviewed by:**

Yiu hao Jiang 2024.12.31 li xia yang 2024.12.31

signature **date** **signature** **date**

BEIJING JU RUI ZHONG BANG HT-TECH CO.LTD

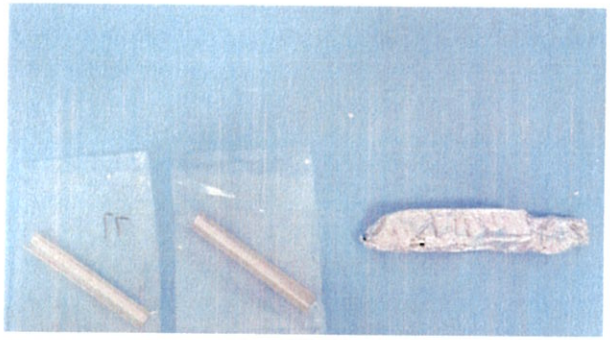
signature **date**

1. Description of Test Samples

1.1 General Description of the Product

· 316L stainless steel products

1.2 Sample Photo



2. Measurement Conditions

2.1 List of Test and Measurement Instruments

Equipment	Equipment type	Equipment number	Calibration date/ Next Calibration date
Profilometer	Dektak 6M	SA-09	2024.07.29/2025.07.29

2.2 Referenced Standards

Test Items	Reference standards
Roughness	SEMI F37

2.3 Summary of Method

2.3.1 Select a single random location for measurement within each distinct region of interest on each component.

2.3.2 Measurements shall be taken perpendicular to the lay.

If this is not practical, measurements may be taken in the direction of process gas flow through the component.

2.3.3 Instrument cutoff length should be set to 0.800 mm (0.030 in.).

2.3.4 The evaluation length, or measurement length, should be at least 3.81 mm (0.150 in.) where sufficient length is available.

2.4 Acquirsion parameters

Loading force: 10mg
Sweep length: 800μm
Scanning time: 10sec

3. Test Result

3.1 Roughness

SEMI 19		Test result (μm)					
		Measure Point 1	Measure Point 2	Measure Point 3	Measure Point 4	Measure Point 5	Mean value
1	Ra	0.1590	0.2335	0.1281	0.1289	0.2185	0.1736
	Ry	1.2624	1.9614	1.6641	1.1703	1.5032	1.5123

End of Test Report