



TOYO INDUSTRIES

(ISO 9001 - 2015 Certified Company)

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MATERIAL TEST CERTIFICATE

THE CERTIFICATE HAS BEEN PREPARED AS PER EN 10204:3.1

CUSTOMER NAME : M/s. Jc Valvulas India Pvt Ltd TC NO : TI/LAB/4325
PURCHASE ORDER NO : JCCMP-2526-02142 DATE : 20.04.2026 ✓
DATE : 28.01.2026 INV NO : TI -046/26-27
JC MDS NO:JC-MDS-214-REV.7 ✓ DATE : 20.04.2026
INSPECTION AGENCY : MICROLAB

SL NO	ITEM	QTY (Nos)	MATERIAL SPEC	H.NO	MARKING
1	HEX NUT M10x1.50 CODE: N934M108M ✓	344 ✓	ASTM SA194 GR.8M / 23 ✓	TI-2259 ✓	8M T

CHEMICAL ANALYSIS

H.NO		C	Mn	P	S	Si	Cr	Ni	Mo
	REQUIRED	0.08 max	2 max	0.045 max	0.03 max	1 max	16.00-18.00	10.00-14.00	2.00-3.00
TI-2259	ACTUAL	0.028 ✓	1.46 ✓	0.019 ✓	0.011 ✓	0.656 ✓	17.89 ✓	10.88 ✓	2.65 ✓

MECHANICAL TEST RESULTS

H.NO		Proof Load Stress, Kna	Hardness HRB
	REQUIRED	40.00 ✓	60 min ✓
TI-2259	ACTUAL	41.20 ✓	103 - 106 ✓

JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted
Q.A. R. Pandiyam

IDENTIFICATION MARK:-

1. ABOVE MATERIAL CONFORMS TO ASTM A194 GR.8M / 24
Carbide Solution Treated

Temp Min °C - 1040°C ✓

Recorded °C - 1080°C ✓

Soaking time (in minutes) : 60 ✓

Quenching medium : WATER ✓

Remarks:

1. Material is free from radioactive contamination, ✓
2. 100% visual inspection carried out & found free from defects ✓
3. Chemical, Mechanical hardness testing carried out at room 25°C ✓
4. Sampling basis hardness testing is performed & found as per requirement ✓
5. This Material confirm to NACE MRO175 / ISO 15156 ✓
6. Raw material reduction Ratio shall be minimum 4:1 ✓

FOR TOYO INDUSTRIES

R.PANDIYAM
MANAGER QC

