

GSTIN : 33AAGFT3111R1Z1



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/4329 ✓
PURCHASE ORDER NO : JCCMP-2526-02404 **DATE** : 21.04.2026 ✓
DATE : 04.03.2026 **INV NO** : TI -052/26-27 ✓
JC MDS NO: JC-MDS-202 REV.10 **DATE** : 21.04.2026 ✓
INSPECTION AGENCY : MICROLAB

DESCRIPTION

SL NO	ITEM	QTY (Nos)	MATERIAL SPEC	H.NO	MARKING
1	HEX BOLT 7/16" 14 UNC X 29 T933U716118B7M-SHDG ✓	194 ✓	ASTM A193 GR.B7M / 24 ✓	TI2456 ✓	B7M T

CHEMICAL ANALYSIS

H.NO		C	Mn	P	S	Si	Cr	MO	
	REQUIRED	0.38-0.48 ✓	0.75-1.00 ✓	0.035 max ✓	0.040 max ✓	0.15-0.35 ✓	0.80 - 1.10 ✓	0.15-0.25 ✓	-
TI2456	ACTUAL	0.425 ✓	0.829 ✓	0.015 ✓	0.020 ✓	0.297 ✓	0.912 ✓	0.205 ✓	-

MECHANICAL TEST RESULTS

H.NO		TENSILE STRENGTH MPa	YIELD STRENGTH min 0.2 % offset Mpa	% ELON G in 4D	% REDUCTION IN AREA Min	Toyo tested Hardness Max
	REQUIRED	690 ✓	550 ✓	18 ✓	50 ✓	235 HBW ✓
TI2456	ACTUAL	795 ✓	687 ✓	32.0 ✓	65.0 ✓	220-228 HBW ✓

IDENTIFICATION MARK:-

1. ABOVE MATERIAL AS CONFORMS TO ASTM A193 GR.B7M /24

Heat Treatment:-

Temp Min °F - 1150°F ✓

Recorded °F - 1170°F ✓

Soaking time (in minutes) : 120 ✓

Quanching medium : Air ✓

Remars:

- 1.Material is free from radioactive contamination, ✓
- 2.100% visual inspection carried out & found free from defects ✓
- 3.Chemical ,Machanical hardness testing carried out at room 25°C ✓
- 4.Sampling basis hardness testing is performed & found as per requ ✓
- 5.This Material confirm to NACE MRO175 / ISO 15156 ✓
- 6.HOT DIP SPUN GALVANISED ✓

JC Valvulas India Pvt. Ltd.

Chennai, Tamil Nadu, India
Verified & Accepted

Q.A. R. Dikj

FOR TOYO INDUSTRIES

R.PANDIYAN
MANAGER QC

