



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/3546
PURCHASE ORDER NO : JCCMP-2425001566 DATE : 26.03.2025
DATE : 02.12.2024 INV NO : TI -815/24-25
JC MDS NO: JC-MDS-201 REV.8 DATE : 26.03.2025
INSPECTION AGENCY : MICROLAB

DESCRIPTION

SL NO	ITEM	QTY (Nos)	MATERIAL SPEC	H.NO	MARKING
1	HEX BOLT 3/4" 10 UNC X 45 mm CODE: T933U3445B7G	180	ASTM A193 GR.B7-23	TI2007	B7 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	-
TI2007	ACTUAL	0.395	0.855	0.010	0.007	0.211	0.875	0.165	-

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	860	720	16	50	35 HRC
TI2007	ACTUAL	966	805	23.0	60.0	29 -31 HRC

IDENTIFICATION MARK:-

1. ABOVE MATERIAL AS CONFORMS TO ASTM A193 GR.B7-23

Heat Treatment:-

Temp Min °F - 1100°F

Recorded °F - 1120°F

Soaking time (in minutes) : 120

Quanching medium : Air

Remars:

JC Valvulas India Pvt. Ltd.

Chennai, Tamil Nadu, India

Verified & Accepted

Q.A.

FOR TOYO INDUSTRIES

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 requiremer

5. Reduction ration 4:1

6. This Material confirm to NACE MRO175 / ISO 15156

R.PANDIYAN
MANAGER QC

