

# CERTIFICATE OF INSPECTION

**PURCHASER :** 7TMW INC.  
**PO. NUMBER :** SSI-1903  
**COMMODITY :** DIN 933 HEX HEAD BOLT FULL THREAD CL 8.8  
**SIZE :** M20-P2.50X60  
**LOT NO :** 1B1911642  
**SHIP QUANTITY :** 3,600 PCS  
**HEADMARKS :** GENIUS SYMBOL & 8.8

**PACKING NO :** GEM190322002  
**INVOICE NO :** GEM/SSI-190408MA-1  
**PART NO :**  
**SAMPLING PLAN :** ASME B18.18/ASTM F1470  
**HEAT NO :** 18105604-4  
**MATERIAL :** ML40CR  
**FINISH :** H.T. PLAIN

## PERCENTAGE COMPOSITION OF CHEMISTRY : TEST FACILITY : S

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.3800	0.9000	0.6000			
MAX.	0.4500	1.2000	0.9000	0.0350	0.0350	0.3000
Test Value	0.4100	1.0100	0.7200	0.0160	0.0040	0.1800

## DIMENSIONAL INSPECTIONS ACCORDING TO DIN933 TEST FACILITY: M

SAMPLED BY: ZHONGHY

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
MAJOR DIAMETER	3 PCS JB/T 9151			19.5800-19.9500 MM	19.8200-19.8300 MM	3	0
WIDTH ACROSS CORNERS	3 PCS JB/T 9151			Min. 39.9800 MM	40.5400-40.5400 MM	3	0
HEIGHT	3 PCS JB/T 9151			14.7900-15.2100 MM	15.0300-15.0400 MM	3	0
NOMINAL LENGTH	13 PCS JB/T 9151			59.3000- 60.7000 MM	60.0500- 60.1600 MM	13	0
WIDTH ACROSS FLATS	3 PCS JB/T 9151			35.3800-36.0000 MM	35.8300-35.8500 MM	3	0
SURFACE DISCONTINUITIES	18 PCS ISO6157.3				PASSED	18	0
THREAD	13 PCS JB/T 9151			6g GO 6g NOGO	PASSED	13	0

## MECHANICAL PROPERTIES : ACCORDING TO ISO 898.1-2013 TEST FACILITY: M

SAMPLED BY: NSYING

INSPECTIONS ITEM	SAMPLE	TEST METHOD	REF	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	13 PCS ISO898.1			23-34 HRC	30-32 HRC	13	0
SURFACE HARDNESS	13 PCS ASTM E384				303-325 HV	13	0
TENSILE STRENGTH	3 PCS ISO898.1			Min. 830 N/MM2	913-923 N/MM2	3	0

ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME/MIL-STD-120 SPECIFICATION. WE CERTIFY THAT THIS DATA IS A TRUE REPRESENTATION OF INFORMATION PROVIDED BY THE MATERIAL SUPPLIER AND OUR TESTING LABORATORY.

THE REPORT IS ISSUED ACCORDING TO ISO16228 F3.1(EN10204 3.1)

TYPE M : MANUFACTURER

TYPE S : SUPPLIER (STEEL MILL, PLATING SUB SUPPLIER, HEAT TREATMENT SUB SUPPLIER ETC.,)

WE CERTIFY THE PARTS ARE ROHS COMPLIANT.

SIGNATURE :

