



**PURCHASER :**  
**PO. NUMBER :** SSI-070306  
**COMMODITY :** ISO 4014 HEX BOLT CL 10.9  
**SIZE :** M20-P2.50X100  
**LOT NO. :** B648934HP  
**SHIP QUANTITY :** 1,760 PCS  
**HEADMARKS :** GENIUS SYMBOL & 10.9

**PACKING NO. :** GEM070419001  
**INVOICE NO. :** GEM/SSI-070428MA  
**PART NO. :**  
**SAMPLING PLAN :** ANSI/ASME B18.18.2M  
**HEAT NO. :** X87329  
**MATERIAL :** SCR440  
**FINISH :** H.T. PLAIN

**PERCENTAGE COMPOSITION OF CHEMISTRY :**

Chemistry	C%	Cr%	Mn%	P%	S%	Si%
Spec. : MIN.	0.3800	0.9000	0.6000			0.1500
MAX.	0.4300	1.2000	0.8500	0.0300	0.0300	0.3500
Test Value	0.4040	1.0400	0.7400	0.0130	0.0080	0.2070

**DIMENSIONAL INSPECTIONS : ACCORDING TO ISO4014**

**TEST DATE :** 2006/10/10      **SAMPLED BY :** YI-HUA LIN      **SAMPLING DATE :** 2006/10/10

INSPECTIONS ITEM	SAMPLE SIZE	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
THREAD LENGTH	32	MIL-STD-120	Min. 48.500 MM	48.578- 49.150 MM	32	0
MAJOR DIAMETER	32	MIL-STD-120	19.620- 19.950 MM	19.654- 19.943 MM	32	0
BODY DIAMETER	32	MIL-STD-120	19.670- 20.000 MM	19.705- 19.978 MM	32	0
WIDTH ACROSS COMERS	32	MIL-STD-120	Min. 33.530 MM	33.578- 33.989 MM	32	0
HEIGHT	32	MIL-STD-120	12.290- 12.710 MM	12.333- 12.692 MM	32	0
NOMINAL LENGTH	32	MIL-STD-120	99.600- 100.700 MM	99.712- 100.684 MM	32	0
WIDTH ACROSS FLATS	32	MIL-STD-120	29.670- 30.000 MM	29.706- 29.952 MM	32	0
SURFACE DISCONTINUITI	50			PASSED		
THREAD	16	MIL-STD-120	6g	PASSED		

**MECHANICAL PROPERTIES : ACCORDING TO ISO 898.1**

**TEST DATE :** 2007/04/28      **SAMPLED BY :** PRD      **SAMPLING DATE :** 2007/04/28

INSPECTIONS ITEM	SAMPLE SIZE	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.
CORE HARDNESS	6	ASTM E18	32-39 HRC	35-37 HRC	6	0
SURFACE HARDNESS	6	ASTM E18	Max. 390 HV	336-345 HV	6	0
TENSILE STRENGTH	3	ASTM F606/F606M	Min. 1,040 N/MM2	1,175-1,193 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.

*Jim*

SIGNATURE :