

**CERTIFICATE OF INSPECTION**

**PURCHASER:**

**PACKING NO:** 211130006

**PO NUMBER:** SSI-2144

**INVOICE NO:** SSI-220104A-1

**COMMODITY:** DIN 933 HEX HEAD BOLT FULL THREAD CL 8.8

**PART NO:**

**SIZE:** M20X2.50X100

**SAMPLING PLAN:**

**LOT NO:** 1B21B0217

**ASME B18.18-2017/ASTM F1470-2018**

**SHIP QUANTITY:** 42,000 PCS

**HEAT NO:** 21309109

**HEADMARKS:** GENIUS SYMBOL & 8.8

**MATERIAL:** 35Cr

**FINISH:** H.L. PLAIN

**PERCENTAGE COMPOSITION OF CHEMISTRY: TEST FACILITY : S**

| Chemistry  | AI%    | CS     | Cr%    | MN%    | P%     | SI%    | SIN    |
|------------|--------|--------|--------|--------|--------|--------|--------|
| Spec: MIN  | 0.0100 | 0.3500 | 0.2000 | 0.6000 |        |        |        |
| MAX        |        | 0.3900 | 0.4000 | 0.9000 | 0.0250 | 0.0250 | 0.1000 |
| Test Value | 0.0190 | 0.3600 | 0.2800 | 0.7700 | 0.0120 | 0.0030 | 0.0500 |

**DIMENSIONAL INSPECTIONS: ACCORDING TO DIN933**

**TEST FACILITY : M**

**SAMPLED BY: ZHANCHONGYUN**

| INSPECTIONS ITEM        | SAMPLE | TEST METHOD | REF | SPECIFIED           | ACTUAL RESULT      | ACC | REJ |
|-------------------------|--------|-------------|-----|---------------------|--------------------|-----|-----|
| MAJOR DIAMETER          | 5 PCS  | JB/T 9151   |     | 19.8200-19.9600 MM  | 19.8200-19.8600 MM | 5   | 0   |
| HEIGHT                  | 5 PCS  | JB/T 9151   |     | 12.2200-12.5600 MM  | 12.3400-12.3800 MM | 5   | 0   |
| WIDTH ACROSS CORNERS    | 5 PCS  | JB/T 9151   |     | Min. 33.9000 MM     | 34.0600-34.1100 MM | 5   | 0   |
| WIDTH ACROSS FLATS      | 5 PCS  | JB/T 9151   |     | 29.7300-30.0000 MM  | 29.8500-29.8800 MM | 5   | 0   |
| NOMINAL LENGTH          | 15 PCS | JB/T 9151   |     | 99.8700-100.4200 MM | 99.8700-99.9200 MM | 15  | 0   |
| SURFACE DISCONTINUITIES | 29 PCS | ISO6157.3   |     |                     | PASSED             | 29  | 0   |
| THREAD                  | 15 PCS | JB/T 9151   |     | 6g CO 6g NOCO       | PASSED             | 15  | 0   |

**MECHANICAL PROPERTIES: ACCORDING TO ISO 898.1-2013**

**TEST FACILITY : M**

**SAMPLED BY: CHENMINGHANG**

| INSPECTIONS ITEM | SAMPLE | TEST METHOD | REF | SPECIFIED      | ACTUAL RESULT | ACC | REJ |
|------------------|--------|-------------|-----|----------------|---------------|-----|-----|
| WEDGE TENSILE    | 5 PCS  | ISO898.1    |     | Min. 800 N/MM2 | 898-912 N/MM2 | 5   | 0   |
| CORE HARDNESS    | 15 PCS | ISO898.1    |     | 22-32 HRC      | 28-29 HRC     | 15  | 0   |
| SURFACE HARDNESS | 15 PCS | ASTM E384   |     | Max. 350 HV    | 292-297 HV    | 15  | 0   |

**ALL TESTS ARE IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE ASTM/SAE/ASME 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:**

