

Certificate of Test

ITEM INFORMATION

Part Number: 0361333305 **Description:** 2X1 FORGED STL HEX BUSHING
Heat Code: D367 **Heat Number:** D367
Reference No.:
Part Specification: ASTM A105/A105M-21 (SECTION 8.3.4 APPLICABLE) / ASME SA105-19

CHEMICAL ANALYSIS %

| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | V | Cb/Nb | Co | CE |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0.2000 | 1.0500 | 0.0050 | 0.0180 | 0.2500 | 0.0600 | 0.0200 | 0.0800 | 0.0030 | 0.0040 | 0.0120 | 0.0030 | 0.398 |

CE (LONG FORMULA) = 0.398

PHYSICAL PROPERTIES

| Yield KSI | Yield PSI | Yield MPA | Tensile KSI | Tensile PSI | Tensile MPA | Elongation | REDUCTION OF AREA % | HARDNESS 1 BHN/HRC | HARDNESS 2 BHN/HRC |
|-----------|-----------|-----------|-------------|-------------|-------------|------------|---------------------|--------------------|--------------------|
| 47 | 46700 | 322 | 78 | 78400 | 540 | 29.00 | 64.00 | 163 | 163 |

IMPACT TESTING

| TYPE | TEMP | SMPL# 1 | # 2 | # 3 | AVG | %SHEAR | LAT EXP |
|--------|------|---------|-----|-----|-----|--------|---------|
| CHARPY | | | | | | | |

SUPPLEMENTAL INFORMATION

THE ORIGINAL MANUFACTURER'S CERTIFICATION MEETS THE REQUIREMENTS OF EN 10204 TYPE 3.1. WE CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE MILL CERTIFICATE, ISSUED BY THE MANUFACTURER OF THE STEEL EMPLOYED OR THE LABORATORY WHICH HAS DETERMINED IT, AS RETAINED IN THE RECORDS OF THE COMPANY. WE MAKE NO REPRESENTATION BEYOND THOSE OF THE MANUFACTURER OR ITS AGENT.