| Customer | Delivery Address |
|---|---|
| Flow Technology Ltd<br>Half House Lane<br>Hove Edge<br>Brighhouse<br>West Yorkshire<br>HD6 2PH | Flow Technology Ltd<br>Half House Lane<br>Hove Edge<br>Brighhouse<br>West Yorkshire<br>HD6 2PH |

Toll Point
Lichfield Road
Brownhills
WS8 6JZ
t. 01922 414003 f. 01922 414606
e. sales@offshorestainless.co.uk

**OFFSHORE STAINLESS SUPPLIES LTD.**
*Supplier of 1.4003 and producers of specialist stainless and high nickel products*



# TEST CERTIFICATE

| | | |
|---|---|---|
| Report No. 027378 | Our Ref. 099507 | Date 19/07/16 |
| Test No. OSS002231 | Customer PO No. 012597/JS | Specification AISI 316/316L Cold Drawn & Linished |
| Despatch Note No. 054850 | | |

| Item | Quantity | Weight Kg | Part No. | Heat No. | Batch No. | Description |
|---|---|---|---|---|---|---|
| 001 | | 144<br>Total | | 56160017 | F58359 | 2 1/2" x 2" Flat bar<br>2 bars 2 1/2" x 2" Flat @3m Randoms |

A. HEAT TREATMENT SUPPLY CONDITION
B. TEST PIECE TREATMENT CONDITION
Solution annealed prior to cold drawing

MELTING PRACTICE

TEST COUPON SIZE

Rotech test report 151283 refers

**Tensile Tests** — Units N/mm2

| Temp °C | * | 0.20% Proof Result | 0.20% Proof Spec-Min | Maximum Stress Result | Maximum Stress Spec-Min | %Elong 4D Result | %Elong 4D Spec-Min | % Reduction of Area Result | % Reduction of Area Spec-Min |
|---|---|---|---|---|---|---|---|---|---|
| 20 | | 534 | 225 | 649 | 490 | 41.4 | 30 | 71 | 40 |

**Impact Tests**

| Temp °C | * | ENERGY 1 | ENERGY 2 | ENERGY 3 | ENERGY MIN | ENERGY AV | SHEAR % 1 | SHEAR % 2 | SHEAR % 3 | SHEAR % MIN | SHEAR % AV | LATERAL EXPANSION 1 | LATERAL EXPANSION 2 | LATERAL EXPANSION 3 | LATERAL EXPANSION MIN | LATERAL EXPANSION AV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |

Hardness: 193 HBW

Component Hardness

| Heat No. | C | Si | Mn | P | S | Cr | Mo | Ni | Cu | Co | N | Ti | Nb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56160017 | 0.019 | 0.480 | 1.550 | 0.025 | 0.028 | 16.800 | 2.030 | 10.120 | 0.380 | 0.327 | 0.046 | 0.003 | 0.045 |

Material free from mercury contamination during manufacturing process.
Material free from radioactivity and inspected during manufacture.
In accordance with EN 10204 3.1

*Signature*

*Position* Commercial Manager

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

F11742 - 1/2" NPT F/F FXD 90° ELBOW 15K 316L