

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

Tall Point  
Lichfield Road  
Brownhills  
WS8 6JZ  
t. 01922 414003  
e. sales@offshoresteel.co.uk



|                          |                           |  |                         |
|--------------------------|---------------------------|--|-------------------------|
| Report No. 014370        | Our Ref. 092623           | Date 10/02/15                                  | Page 1 of 1             |
| Test No. oss001300       | Customer PO No. 010610/DB | Specification Cold drawn A151 316L NACE MR0175 | <b>TEST CERTIFICATE</b> |
| Dispatch Note No. 047751 |                           |  |                         |

| Item | Quantity | Weight Kg | Part No. | Heat No. | Batch No. | Description                     |
|------|----------|-----------|----------|----------|-----------|---------------------------------|
| 001  | 0        | 213       |          | 56141614 | F54467    | 2" x 1.1/2" flat bar & finished |
|      |          | Total     |          |          |           |                                 |

A. HEAT TREATMENT SUPPLY CONDITION  
B. TEST PIECE TREATMENT CONDITION

MELTING PRACTICE

TEST COUPON SIZE


Rotech report 130712 refers

**FLOW TECHNOLOGY LTD**  
 TEST CERTIFICATE  
 VERIFIED TRUE  
 COPY OF ORIGINAL

| Tensile Tests      |                    | Units                 |                  |                            | Impact Tests |              |              | Hardness          |
|--------------------|--------------------|-----------------------|------------------|----------------------------|--------------|--------------|--------------|-------------------|
| Temp °C            | 0.20% Proof Result | Maximum Stress Result | %Elong 4D Result | % Reduction of Area Result | Temp °C      | ENERGY       | SHEAR %      | LATERAL EXPANSION |
| 20                 | 660                | 756                   | 31.1             | 62                         | *            | 1 2 3 MIN AV | 1 2 3 MIN AV | 1 2 3 MIN AV      |
|                    | Spec-Min 220       | Spec-Min 490          | Spec-Min 30      | Spec-Min 40                |              |              |              |                   |
| Component Hardness |                    |                       |                  |                            |              |              |              |                   |
| HBW                |                    |                       |                  |                            |              |              |              |                   |

|                   |       |       |       |       |       |      |       |        |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|-------|-------|
| Heat No. 56141614 | C     | Si    | Mn    | P     | S     | Cr   | Mo    | Ni     | Cu    | Co    | N     | Ti    |
|                   | 0.018 | 0.560 | 1.500 | 0.035 | 0.028 | 16.7 | 2.040 | 10.060 | 0.420 | 0.234 | 0.049 | 0.003 |

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

F9902 - 1/2" NPT F/F FXD 90° ELBOW 10K 316L