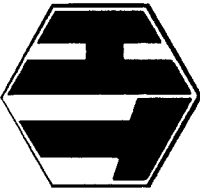


Customer
 FLOW TECHNOLOGY LTD
 HALF HOUSE LANE
 HOVE EDGE
 BRIGHOUSE
 WEST YORKS. HD6 2PH

Delivery Address
 FLOW TECHNOLOGY LTD
 HALF HOUSE LANE
 HOVE EDGE
 BRIGHOUSE
 WEST YORKS. HD6 2PH

FLOW TECHNOLOGY LTD
 TEST CERTIFICATE
 VERIFIED TRUE
 COPY OF ORIGINAL



HI-TECH
 Special Steels Limited
 Ruberham Road, Loughan Common,
 Dringington, Sheffield S25 5PH
 Tel: Dringington (01909) 564545
 Fax No (01909) 550682

Report No. 042536 Our Ref. 103746 Date 21/03/18 Page 1 of 1
 Test No. 326901 Customer PO No. 015001/JS Specification BS EN 10088-3 1.4404
 Dispatch Note No. 056898

TEST CERTIFICATE

| Item | Quantity | Weight Kg | Part No. | Heat No. | Batch No. |
|------|----------|-----------|----------|----------|-----------|
| 001 | 4 | 92.0 | | 561638 | P221387 |
| | | Total | | | |

Description
 1.1/2" X 1" FINISHED BAR
 CONFORMING TO NACE MR0175
 12 METRES

A. HEAT TREATMENT SUPPLY CONDITION
 B. TEST PIECE TREATMENT CONDITION
 MELTING PRACTICE AOD TEST COUPON SIZE

| Tensile Tests | | | | Units | | | | Impact Tests | | | | Hard- | | | | |
|---------------|-------------|----------------|-------------|---------------------|---------|--------|----|--------------|---------|----|---|-------------------|------|-----|----|-----|
| | | | | MPa | | | | | | | | ness | | | | |
| Temp °C | 0.20% Proof | Maximum Stress | %Elong 50MM | % Reduction of Area | Temp °C | ENERGY | | | SHEAR % | | | LATERAL EXPANSION | 21.7 | | | |
| | Result | Spec-Min | Result | Spec-Min | * | 1 | 2 | 3 | MIN | AV | 1 | 2 | 3 | MIN | AV | HRC |
| 20 | L | 541 | 200 | 721 | 500 | 36 | 30 | 64 | 50 | | | | | | | |

Component Hardness

| Heat No. | C | Si | Mn | S | P | Cr | Ni | Mo | Cu | Ti | Co | N |
|----------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 561638 | 0.019 | 0.540 | 1.460 | 0.028 | 0.035 | 16.920 | 10.090 | 2.040 | 0.460 | 0.002 | 0.272 | 0.058 |

* Test Direction: L = Longitudinal; T = Transverse
 TEST CERTIFICATE in accordance with BS EN 10204 3.1 / ISO 10474 3.1
 Certified that the whole of the supplied detailed hereon, unless otherwise stated, are covered by the Sources Certificate of Conformity/Test Certificate referenced hereon, and has been supplied to the Quality System requirements in accordance with the conditions of our BS EN ISO 9001 registration for lot traceable products.
 Signature
 Position
 Certification Dept