SWP
Specialised Welding Products Ltd

# CERTIFICATE

TÜV NORD ISO 9001

**EN 10204**

| | 2.2 | 3.1 |
|---|---|---|
| CHEMICAL | X | |
| MECHANICAL | X | |

| | | | |
|---|---|---|---|
| Number | L - 6329 | | |
| Page | 1/1 | Date | 06.07.2011 |

| | |
|---|---|
| Purchaser | **SPECIALISED WELDING PRODUCTS LTD FARRINGDON INDUSTRIAL CENTRE ALTON HAMPSHIRE GU34 DP,UK ENGLAND** |
| Order Nr | 07/swp/323-2011 |
| Product Group | Covered electrode - stainless, high alloyed |
| Brand Name | **ELOX R 316L 17 ( SUPER6 E 316L-17 ) /3 KG PLASTIC BOX** |
| Standard | AWS A5.4:06 TS 2716 EN 1600:02 |
| Classification | E 316 L - 17 E 19 12 3 L R 32 |
| Size | **2,50x250 mm** |
| Quantity | 90,00 Kg |
| Serial Nr | **2084** |
| Charge Nr | 084 |

**Chemical Composition of Weld Metal (%)**

| Charge Nr | C | Si | Mn | P | S | Cr | Ni | Mo | Cu | V | Al | Fe | - | - | - | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *AWS* | *<0,04* | *<1,0* | *0,5-2,5* | *<0,04* | *<0,03* | *17,0-20,0* | *11,0-14,0* | *2,0-3,0* | *<0,75* | - | - | *Rest/Kalan* | - | - | - | - | - |
| *TS/EN/ISO* | *<0,04* | *<1,2* | *<2,0* | *<0,03* | *<0,025* | *17,0-20,0* | *10,0-13,0* | *2,5-3,0* | - | - | - | *Rest/Kalan* | - | - | - | - | - |
| 084 | 0,031 | 0,724 | 0,816 | 0,021 | 0,001 | 18,243 | 11,308 | 2,638 | 0,093 | 0,207 | 0,001 | Rest(Kalan | - | - | - | - | - |

**Mechanical Properties**

| Tensile Test | | | - EN 10002-1 | | Impact Test | | | - EN 10045-1 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Specimen preparation | | | - EN 876 | | Specimen preparation | | | - EN 875 VWT 0/b | | |
| | Test Temperature °C | $R_p$ Yield Strength N / mm² | $R_m$ Tensile Strength N / mm² | A Elong. $\%L_o=5d_o$ | Test Temperature °C | KV Impact Strength J | KV Average J | Hardness - | Radiographic test - | Comment |
| *AWS* | *20* | - | *>490* | *>30* | - | - | - | - | - | |
| *TS/EN/ISO* | *20* | *>320* | *>510* | *>25* | - | - | - | - | - | |
| | 20 | min. 355 | 540 - 670 | min. 30 | 20 | - | min. 47 | - | - | |

Quality Department

F186/00