

ROBA METALS GENK  
SLINGERWEG 31  
3600 GENK

## INSPECTION CERTIFICATE

Type 3.1 acc. EN 10204

Certificate No : 1000566186

DATE: 28.08.2023

Delivery No : 0085282771

|               |                 |                |              |
|---------------|-----------------|----------------|--------------|
| Customer      | ROBA METALS B.V |                |              |
| Cust's Ref No | PO-0046990-1    | Cust's Part No | 19280        |
| Our Order No  | 1200143378 / 10 | Quantity       | 2.450,00 MTR |
|               |                 | Inspection Lot | 020000846481 |

|             |                                    |
|-------------|------------------------------------|
| Designation | CuT m 022,225x1,50x5000 JJ ASO D R |
|-------------|------------------------------------|

|              |  |
|--------------|--|
| according to | EN 12735-1 R300 & tube properties to VdTÜV567 requirements |
|--------------|--|

|              |   |
|--------------|---|
| Material     | CuFe2P  |
| Chem. Anal.: | FE:2,1-2,6-P:0,015-0,150-PB<0,03-ZN:0,050-0,200-OTHERS TOTAL<0,200-CU:REM. OK |

| Characteristic  | Unit of meas.      | Specifications  | Values        | Sample No |
|-----------------|--------------------|-----------------|---------------|-----------|
| ODmin           | mm                 | >=22,125        | 22,160        | 3         |
| ODmax           | mm                 | <=22,325        | 22,200        | 3         |
| ODav            | mm                 | 22,175 - 22,275 | 22,180        | 3         |
| Smin            | mm                 | >=1,410         | 1,500 - 1,510 | 3         |
| Smax            | mm                 | <=1,590         | 1,530 - 1,540 | 3         |
| LENGTH          | mm                 | >=5000          | 5010          | 3         |
| STRAIGHTNS      | mm/m               | <=4,0           | 3,0           | 3         |
| Rm              | N/mm <sup>2</sup>  | >=300,0         | 350,0 - 355,6 | 3         |
| Rp0,2           | N/mm <sup>2</sup>  | 140,0 - 250,0   | 140,1 - 143,5 | 3         |
| Rp1             | N/mm <sup>2</sup>  | >=160,0         | 188,5 - 192,9 | 3         |
| A               | %                  | >=30,0          | 38,5 - 41,3   | 3         |
| C TOT. RES. IN. | mg/dm <sup>2</sup> | <=0,38          | 0,06 - 0,10   | 3         |
| ECT EN 1971     | %                  | 100             | OK            | -         |

### DECLARATION OF COMFORMITY

The products detailed above, conform to the conditions and requirements of the purchaser and to the description, quantities and spec. stated. The Quality Assurance System applied to monitor their production, complies with the requirements of ISO 9001:2015, independently certified by TÜV HELLAS, with certification No 041070119.

Athens

31.08.2023

Q.C. INSPECTOR

Q.A. MANAGER



D. SKARMOUTSOS

Tube Plant

WI 8.2.17\_Form 8, Rev.: 0

Date March 2023

ELVALHALCOR HELLENIC COPPER & ALUMINIUM INDUSTRY S.A.  
S.A. Register No: 2836/06/B/86/48  
Ministry of Economy & Development  
General Commercial Registry No: 303401000  
VAT No: EL 094061318  
Athens S.A. Companies Tax Office  
Registered Office: 2-4 Mesogeion Avenue,  
Athens Tower, 2nd Building,  
Athens GR 11527, Greece  
[www.elvalhalcor.com](http://www.elvalhalcor.com)

Offices and Copper Tubes Plant  
(Mailing Address)  
62nd km Athens-Lamia National Road  
Oinofyta-Viotia, GR 32011, Greece  
T: +30 22620 48111  
[www.halcor.com](http://www.halcor.com)

Brass Rods & Tubes Plant  
(Mailing Address)  
59th km Athens-Lamia  
National Road,  
Oinofyta-Viotia, GR 32011,  
Greece  
T: +30 22620 53158

Foundry  
60th km Athens-Lamia National Road,  
Oinofyta-Viotia, GR 32011, Greece  
T: +30 22620 53011  
Domestic Sales Dept  
Peripheral Unit of West Attica  
Municipality of Aspropyrgos  
Prari position-Moustaki  
Industrial Park Area VIPA VIOPA EM  
GR 19300, Greece  
T: +30 210 4898111