

3/16" x 0,76 vol 50mh

ROBA METALS B.V
ZOMERDIJK 27-33
3402 NL AA IJSSELSTEIN(NL)

TEST REPORT / DECLARATION OF CONFORMITY
EN 10204-3.1

Certificate No : 1000154452 DATE: 15.12.2011
Delivery No : 0085067305

| | | | |
|-------------------|---------------------|--------------------|-----------------------------|
| CUSTOMER | ROBA METALS B.V | | |
| CUSTOMER'S REF No | HFCU31-10-11 | CUSTOMER'S PART No | 879309 |
| OUR ORDER No | 1200046416 /1 QUANT | 3.150,80 KG | INSPECTION LOT 020000149950 |

| | | | |
|--------------|--|-----------|--------|
| DESIGNATION | COPPER TUBES 004.763x0.76x50000 PNC FOR REFRIGERATION USE. | | |
| ACCORDING TO | TOLERANCES EN 12735-1 R220,PED 97/23 & CUSTOMER REQUIR | MATERIAL: | DHP Cu |

| Characteristic | Unit of meas. | Specifications | Values |
|----------------|---------------|----------------|------------------------|
| LENGTH | mm | 50000 - 50200 | 50120 - 50130 |
| CHEM.ANAL. (%) | | | Cu>99,90 P:0,015-0,040 |
| Rp0,2 | N/mm2 | | |
| Rm | N/mm2 | >=220,0 | 238,0 - 240,0 |
| A | % | >=40,0 | 45,4 - 48,0 |
| GRAIN | µm | | 35 - 40 |
| HV | Vickers | | |
| C TOT. RES. IN | mg/dm2 | <=0,38 | 0,04 |
| EC TEST | | | 100% |
| ODmax | mm | | 4,770 - 4,780 |
| ODmin | mm | | 4,750 - 4,760 |
| ODav | mm | 4,723 - 4,803 | 4,760 - 4,770 |
| Smax | mm | <=0,836 | 0,710 - 0,720 |
| Smin | mm | >=0,684 | 0,690 |
| Sav | mm | <=0,707 | 0,700 - 0,705 |

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 to the requirements of ISO 9001/2008, independently certified by TÜV HELLAS, with registration No 041070119.

Athens

15.12.2011

Q.A. MANAGER

D. SKARMOUTSOS

ISSUE B

REV 0

DATE SEP-2007

FORM A3

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