

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

TEST REPORT / DECLARATION OF CONFORMITY
EN 10204-3.1

Certificate No : 1000186147
Delivery No : 0085083622

DATE: 26.04.2013

Customer	ROBA METALS B.V				
Cust's Ref No	21st call off		Cust's Part No		
Our Order No	1200053499 / 10	Quantity	4.444,00 KG	Inspection Lot	020000207722

Designation	COPPER TUBES 012,700x0,80x5000 STRAIGHT FOR REFRIGERATION USE ,
according to	EN 12735-1 R250 PED 97/23 & CUSTOMER REQUIREMENTS
Material	DHP Cu

Characteristic	Unit of meas.	Specifications	Values
LENGTH	mm	5000 - 5008	5008
CHEM.ANAL. (%)			Cu>99,90 P:0,015-0,040
Rp0,2	N/mm ²		
Rm	N/mm ²	>=250,0	277,0
A	%	>=30,0	30,0
GRAIN	µm		
HV	Vickers		95
C TOT. RES. IN	mg/dm ²	<=0,38	0,07
ECT EN 1971			100%
ODmax	mm	<=12,790	12,700 - 12,750
ODmin	mm	>=12,610	12,640 - 12,690
ODav	mm	12,660 - 12,740	12,690 - 12,700
IDmax	mm		
IDmin	mm		
IDav	mm		
Smax	mm	<=0,880	0,760 - 0,770
Smin	mm	>=0,720	0,730 - 0,740
Sav	mm	0,735 - 0,751	0,745 - 0,750

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

26.04.2013

Q.A.MANAGER

D. SKARMOUTSOS

ISSUE B

REV 0

DATE SEP-2007

FORM N3

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