

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

TEST REPORT / DECLARATION OF CONFORMITY
EN 10204-3.1

Certificate No : 1000187672
Delivery No : 0085084377

DATE: 21.05.2013

Customer	ROBA METALS B.V		
Cust's Ref No	23081.13.056/05	Cust's Part No	
Our Order No	1200053859 / 10	Quantity	1.252,00 KG
		Inspection Lot	020000209731

Designation	COPPER TUBES 009,525x0,80x5000 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	5005
CHEM.ANAL. (%)			Cu>99,90 P:0,015-0,040
Rp0,2	N/mm ²		
Rm	N/mm ²	>=250,0	291,4
A	%	>=30,0	33,2
GRAIN	µm		
HV	Vickers		97
C TOT. RES. IN	mg/dm ²	<=0,38	0,07
ECT EN 1971			100%
ODmax	mm	<=9,615	9,530
ODmin	mm	>=9,435	9,510 - 9,520
ODav	mm	9,485 - 9,565	9,520 - 9,525
IDmax	mm		
IDmin	mm		
IDav	mm		
Smax	mm	<=0,880	0,760 - 0,770
Smin	mm	>=0,720	0,720 - 0,730
Sav	mm	0,733 - 0,750	0,745

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

21.05.2013

Q.A.MANAGER

D. SKARMOUTSOS

ISSUE B

REV 0

DATE SEP-2007

FORM N3