

# CERTIFICATE OF COMPLIANCE

( EN 10204 type "3.1" )

**COSTUMER: ROBA METALS B.V.**
**SHIPMENT DATE : 07/03/2011**

 ADDRESS : ZOMERDIJK, 17 - 33  
 3402 mj - IJSSELSTEIN  
 UTRECCHT - HOLLAND

**WE CERTIFY** that the goods detailed hereon fulfil with the following standard : **EN 12735-1**

Type matériel : <b>Cu-DHP</b> Type of tube: <b>Seamless rolund copper tubes for air conditioning and refrigeration. Part 1: Tubes for paiping systems.</b>	Product type : <b>ACR COPPER TUBE</b> Chemical analysis : <b>Cu + Ag min. 99,90%</b> <b>P : 0,015 ÷ 0,040%</b>
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DELIVERY NOTE Nº	RELATION OF MATERIAL				SIZE CONTROL						MECHANICAL PROPERTIES				
	NOMINAL SIZE mm.	TEMPER	MTS. total	BATCH Nº	DIAMETER			WALL THICKNESS			Tensile Strenght N/mm <sup>2</sup>	Elong. A5 %	Hardness HV5	Total Carbon mg/dm <sup>2</sup>	
					Min. mm.	Mean mm.	Max. mm.	Min. mm.	Mean mm.	Max. mm.					
2011/01/001154	Ø 12x1,0	Half-hard (R250)	4.000	7858	<b>Standard Tolerances</b>										
					11,96	11,96÷12,04	12,04	0,87	0,87÷1,13	1,13	min 250	min 30%	75 ÷ 100	max 0,38	
	Ø 54x1,5	Hard (R290)	2.000	7812	<b>Standard Tolerances</b>										
					53,94	53,94÷54,06	54,06	1,28	1,28÷1,72	1,72	min 290	min 3%	min 100	max 0,38	
	Ø 1/2"x0,8	Half-hard (R250)	6.000	7881	<b>Standard Tolerances</b>										
					12,66	12,66÷12,74	12,74	72	0,72÷0,88	0,88	min 250	min 30%	75 ÷ 100	max 0,38	
	Ø 3/4"x0,90	Half-hard (R250)	4.500	7831	<b>Standard Tolerances</b>										
					19	19÷19,10	19,1	0,81	0,81÷0,99	0,99	min 250	min 30%	75 ÷ 100	max 0,38	
	Ø 1 1/8"x1,27	Hard (R290)	2.000	7814	<b>Standard Tolerances</b>										
					28,50	28,50÷28,64	28,64	1,08	1,08÷1,46	1,46	min 290	min 3%	min 100	max 0,38	
<b>TOTAL</b>			<b>18.500</b>												

These goods have been produced under a certified Quality Assurance System.

Les Masies de Voltregà (Spain),

07/03/2011

 LA FARGA TUB, S.L.  
 ( Quality Dpt.)



