

# CERTIFICATE OF COMPLIANCE

( EN 10204 type "3.1" )

**COSTUMER:** ROBA METALS B.V.  
**ADDRESS :** ZOMERDIJK, 17 - 33  
3402 mj - IJSSELSTEIN  
UTRECCHT - HOLLAND

**SHIPMENT DATE :** 07/03/2011

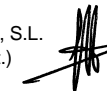
**WE CERTIFY** that the goods detailed hereon fulfil with the following standard : **EN 12735-1**

Type matériel : <b>Cu-DHP</b>	Product type : <b>ACR COPPER TUBE</b>
Type of tube: <b>Seamless rolund copper tubes for air conditioning and refrigeration. Part 1: Tubes for paiping systems.</b>	Chemical analysis : <b>Cu + Ag min. 99,90%</b> <b>P : 0,015 ÷ 0,040%</b>

DELIVERY NOTE N°	RELATION OF MATERIAL				SIZE CONTROL						MECHANICAL PROPERTIES			
	NOMINAL SIZE mm.	TEMPER	MTS. total	BATCH N°	DIAMETER			WALL THICKNESS			Tensile Strenght N/mm²	Elong. A5 %	Hardness HV5	Total Carbon mg/dm²
					Min. mm.	Mean mm.	Max. mm.	Min. mm.	Mean mm.	Max. mm.				
2011/01/001155	Ø 15x1,0	Half-hard (R250)	1.500	7832	14,96	14,96÷15,04	15,04	0,87	0,87÷1,13	1,13	min 250	min 30%	75 ÷ 100	max 0,38
					Standard Tolerances									
	Ø 22x1,10	Half-hard (R250)	1.000	7.463	21,93	21,93÷22,05	22,05	0,94	0,94÷1,26	1,26	min 250	min 30%	75 ÷ 100	max 0,38
					Standard Tolerances									
	Ø 28x1,2	Half-hard (R250)	1.000	7849	27,95	27,95÷28,05	28,05	1,02	1,02÷1,38	1,38	min 250	min 30%	75 ÷ 100	max 0,38
					Standard Tolerances									
	Ø 54x1,5	Hard (R290)	200	7812	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
					Standard Tolerances									
	Ø 1/2"x0,8	Half-hard (R250)	6.000	7881	12,66	12,66÷12,74	12,74	72	0,72÷0,88	0,88	min 250	min 30%	75 ÷ 100	max 0,38
					Standard Tolerances									
	Ø 3/4"x0,90	Half-hard (R250)	1.000	7831	19	19÷19,10	19,1	0,81	0,81÷0,99	0,99	min 250	min 30%	75 ÷ 100	max 0,38
					Standard Tolerances									
	Ø 1 1/8"x1,27	Hard (R290)	2.000	7814	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
					Standard Tolerances									
TOTAL				12.700										

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

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



Les Masies de Voltregà (Spain),

07/03/2011