

COASOL S.A.
COBRES Y ALEACIONES PARA LA SOLDADU
BOVILA 3-5
08290 CERDANYOLA DEL VALLES-BARCELONA

INSPECTION CERTIFICATE

Type 3.1 acc. EN 10204

Certificate No : 1000516875

DATE: 03.05.2022

Delivery No : 0085253506

Customer	COASOL S.A.		
Cust's Ref No	ACR CLIMA 4º WEEK APRIL-3003	Cust's Part No	9601120640250
Our Order No	1200130955 / 20	Quantity	2.200,00 MTR
		Inspection Lot	020000764475

Designation	CuT m 012,700x0,64x25000 JJHBO XE09-12 R		
according to	EN 12735-1:2001,R220.		
Material	Cu-DHP		
Chem. Anal.:	CU>99,90-P:0,015-0,040	OK	

Characteristic	Unit of meas.	Specifications	Values	Sample No
ODav	mm	12,660 - 12,740	12,680 - 12,710	1
Smin	mm	>=0,576	0,610 - 0,620	1
Smax	mm	<=0,704	0,650	1
LENGTH	mm	>=25000	25000	1
OVALITY	mm	<=0,89	0,12 - 0,16	1
Rm	N/mm ²	>=220,0	235,7	1
A50	%	>=40,0	51,1	1
EXPANSION	%	>=30,0	OK	1
C TOT. RES. IN.	mg/dm ²	<=0,38	0,11	1
ECT EN 1971	%	100	OK	-

DECLARATION OF COMFORMITY

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 with the requirements of ISO 9001:2015, independently certified by TÜV HELLAS, with certification No 041070119.

Athens

03.05.2022

Q.C. INSPECTOR

Q.A. MANAGER



D. SKARMOUTSOS

ISSUE: C

REV: 2

DATE: DEC. 2017



COPPER & ALLOYS EXTRUSION DIVISION:

S.A. Register No: 2836/06/B/86/48 Ministry of Economy and Development
General Commercial Registry No: 303401000
VAT No: EL 094061318 Athens S.A. Companies Tax Office
Registered Office: 2-4 Mesogeion Avenue, Athens Tower
2nd Building, Athens GR 11527, Greece
www.elvalhalcor.com

Offices & Copper Tubes Plant
(Mailing Address)
62nd km Athens-Lamia National Road
Oinofyta - Viotia, GR 32011, Greece
Tel.: +30 22620 48111
Fax: +30 22620 48911
www.halcor.com

Brass Rods & Tubes Plant
(Mailing Address)
59th km Athens-Lamia National Road
Oinofyta - Viotia, GR 32011, Greece
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Foundry
60th km Athens-Lamia National Road
Oinofyta -Viotia, GR 32011, Greece
Tel.: +30 22620 53011, Fax: +30 22620 53095
Domestic Sales Dept
Peripheral Unit of West Attica
Municipality of Aspropyrgos
Prari position-Moustaki
Industrial Park Area VIPA VIOPA EM

FORM N3

Inofyta :26/11/2020

CERTIFICATE OF CONFORMITY

It is hereby certified that the PEX pre-insulated copper tubes supplied to COASOL S.A for refrigeration uses under the trade name "COASOL S.A ACR CLIMA" are manufactured by Halcor Copper Tubes Division of ELVALHALCOR S.A. at its Inofyta tube plant in accordance to the European Specification EN 12735-1 .

The insulating material with thickness 9mm comprises of an expanded cross-linked polyethylene layer externally covered with a protective sheathing of solid polyethylene that has increased resistance to light.

The formulation of the sheathing material includes a UV "master-batch", with selected light stabilizers that slow down the harmful effects of solar radiation.

This material provides an insulation protection exhibiting thermal conductivity $\lambda = 0,0357\text{W/mK}$ for 0°C and $\lambda = 0,0389\text{W/mK}$ for 40°C , according to EN ISO 8497 .Water vapor diffusion resistance $\mu > 12.500$ according to EN 13469. Working temperature -80°C to $+110^{\circ}\text{C}$.

All insulation properties and technical characteristics comply with the standards of most European countries, as well as, with international standards. As regards for reaction to fire, the material has been certified as class E according to EN 13501-1,MPA Stuttgart test report 16-901 2120 002 and CSI Milan Test report 0120/DC/REA/17-6).

Their production is monitored with the application of a Quality Management System according to ISO 9001:2015 (TUV HELLAS 041070119)

The Quality Assurance Manager



Dr.D.Skarmoutsos