

STEELMET ROMANIA S.A.  
 42nd DRUMUL INTRE TARLALE STR.  
 032982 BUCHAREST 3rd SECTOR

**INSPECTION CERTIFICATE**  
**Type 3.1 acc. EN 10204**

**Certificate No : 1000445035**  
**Delivery No : 0085212907**

**DATE: 05.08.2020**

Customer	<b>STEELMET ROMANIA S.A.</b>		
Cust's Ref No	<b>0010024453</b>	Cust's Part No	
Our Order No	<b>1200109519 / 10</b>	Quantity	<b>5.000,00 MTR</b>
		Inspection Lot	<b>020000635072</b>

Designation	<b>CuT m 006,350x0,60x50000 JJHBO XE09-17 R</b>		
according to	<b>EN 12735-1:2001,R220.</b>		
Material	<b>Cu-DHP</b>		
Chem. Anal.:	<b>CU&gt;99,90-P:0,015-0,040</b>	OK	

Characteristic	Unit of meas.	Specifications	Values	Sample No
ODav	mm	6,310 - 6,390	6,335 - 6,350	1
Smin	mm	>=0,540	0,590	1
Smax	mm	<=0,660	0,610 - 0,620	1
LENGTH	mm	>=50000	50000	1
OVALITY	mm	<=0,45	0,01 - 0,03	1
Rm	N/mm <sup>2</sup>	>=220,0	241,6	1
A50	%	>=40,0	51,3	1
GRAIN	µm	25 - 35	35	1
EXPANSION	%	>=30,0	OK	1
C TOT. RES. IN.	mg/dm <sup>2</sup>	<=0,38	0,10	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

05.08.2020

Q.C. INSPECTOR

Q.A. MANAGER



D. SKARMOUTSOS

FORM N3

ISSUE: C

REV: 2

DATE: DEC. 2017

e-mail: info@halcor.com  
 website: www.halcor.com  
 VAT number: EL094061318

**Offices & Copper Tube Plant (Mailing Address)**  
 62<sup>nd</sup> km Athens-Lamia National Road,  
 GR-32011 Inofita-Viotia, GREECE  
 Tel.: +30 22620 48111, Fax: +30 22620 48911

**Foundry**  
 60<sup>th</sup> km Athens-Lamia National Road,  
 GR-32011 Inofita-Viotia, GREECE  
 Tel.: +30 22620 53479, Fax: +30 22620 53925

**Domestic Sales Dept**  
 252 Pireos str.  
 GR-17778, Tavros, Athens, GREECE  
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Certificate No : 1000421352  
 Delivery No : 0085201115

DATE: 23.01.2020

Customer	STEELMET ROMANIA S.A.			Cust's Part No	
Cust's Ref No	OR 165		Quantity	2.300,00 MTR	Inspection Lot
Our Order No	1200103787 / 10				020000595209

Designation	CuT m 010,000x1,00x25000 JH HPO M				
according to	EN 12735-1 R220 & EN 13348.				
Material	Cu-DHP				
Chem. Anal.:	CU>99,90-P:0,015-0,040			OK	

Characteristic	Unit of meas.	Specifications	Values	Sample No
ODav	mm	9,960 - 10,040	10,025	1
Smin	mm	>=0,870	0,890	1
Smax	mm	<=1,130	0,920	1
LENGTH	mm	>=25000	25050	1
OVALITY	mm	<=0,70	0,15	1
Rm	N/mm <sup>2</sup>	>=220,0	242,0	1
A50	%	>=40,0	51,6	1
EXPANSION	%	>=30,0	OK	1
C TOT. RES. IN.	mg/dm <sup>2</sup>	<=0,20	0,07	1
ECT EN 1971	%	100	OK	-

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Athens

27.01.2020

Q.C. INSPECTOR

Q.A. MANAGER



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**INSPECTION CERTIFICATE**  
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**Certificate No : 1000444792**  
**Delivery No : 0085212664**

**DATE: 30.07.2020**

Customer	<b>STEELMET ROMANIA S.A.</b>			Cust's Part No	
Cust's Ref No	<b>OR095</b>		Quantity	<b>7.700,00 MTR</b>	Inspection Lot
Our Order No	<b>1200109106 / 30</b>				<b>020000631745</b>

Designation	<b>CuT m 012,700x0,64x50000 JJHBO XE09-17 R</b>				
according to	<b>EN 12735-1:2001,R220.</b>				
Material	<b>Cu-DHP</b>				
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	12,700 - 12,710	2
Smin	mm	>=0,576	0,610 - 0,640	2
Smax	mm	<=0,704	0,650 - 0,660	2
LENGTH	mm	>=50000	50000	2
OVALITY	mm	<=0,89	0,08 - 0,15	2
Rm	N/mm <sup>2</sup>	>=220,0	246,1 - 247,2	2
A50	%	>=40,0	51,8 - 52,9	2
EXPANSION	%	>=30,0	OK	2
C TOT. RES. IN.	mg/dm <sup>2</sup>	<=0,38	0,10 - 0,14	2
ECT EN 1971	%	100	OK	-

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Athens

31.07.2020

Q.C. INSPECTOR

Q.A. MANAGER



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**INSPECTION CERTIFICATE**
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**Certificate No : 1000459428**
**DATE: 03.12.2020**
**Delivery No : 0085220036**

Customer	<b>STEELMET ROMANIA S.A.</b>		
Cust's Ref No	<b>OR176</b>	Cust's Part No	
Our Order No	<b>1200113253 / 30</b>	Quantity	<b>1.000,00 MTR</b>
		Inspection Lot	<b>020000657874</b>

Designation	<b>CuT m 015,875x0,72x25000 JJHBO XE09-17 R</b>		
according to	<b>EN 12735-1:2001,R220.</b>		
Material	<b>Cu-DHP</b>		
Chem. Anal.:	<b>CU&gt;99,90-P:0,015-0,040</b>	OK	

Characteristic	Unit of meas.	Specifications	Values	Sample No
ODav	mm	15,835 - 15,915	15,895 - 15,905	1
Smin	mm	>=0,648	0,680 - 0,710	1
Smax	mm	<=0,792	0,740 - 0,750	1
LENGTH	mm	>=25000	25000 - 25100	1
OVALITY	mm	<=1,11	0,27 - 0,37	1
Rm	N/mm <sup>2</sup>	>=220,0	243,5	1
A50	%	>=40,0	51,8	1
EXPANSION	%	>=30,0	OK	1
C TOT. RES. IN.	mg/dm <sup>2</sup>	<=0,38	0,09	1
ECT EN 1971	%	100	OK	-

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09.12.2020

Q.C. INSPECTOR

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