

Schlösser Möller Kulde A/S Postboks 65 Bryn 0611 Oslo Norway		Your order			
		Our reference 133082	Packing slip / Date PS537264 30.10.2020		
Item	Product, Grade and Size	Cupori Item no.	Amount	Shop floor order	
4	Cupori 221 Ref CO2 copper tube EN 12735-1 Cu-DHP R290 22.23X1.50 5000MM  According to: EN 12735-1	P325516	305,900 kg	703475.4	
<b>Mechanical testing</b>					
Parameter tested		Measured		Specified/Reference(R)	
		Min.	Max.	Min.	Max.
Rm (N/mm <sup>2</sup> )		446,000	446,000	290,000	
Rp 0.2 (N/mm <sup>2</sup> )		414,000	414,000		
Rp 0.5 (N/mm <sup>2</sup> )					
Rp 1.0 (N/mm <sup>2</sup> )					
Elongation (%)		9,000	9,000	3,000	
Grainsize (mm)					
<b>Method of control of dimensions</b>					
Parameter tested		Measured		Specified/Reference(R)	
		Min.	Max.	Min.	Max.
Average WT			1,380	1,350	1,390
Average OD			22,240	22,180	22,280
Roundness			0,070		
Chemical composition % Cu-DHP/CW024A Cu min 99,90 P 0,03					
EDDY CURRENT TESTED: 100%					
Electrical conductivity at 20 C % IACS(mass) annealed		We hereby certify, that the material described above complies with the order			
These products have been produced under a certified quality system ISO 9001: 2015 / DNV Certificate No. 80561-2010-AQ-FIN-FINAS		Teemu Pihl  This certificate has been established electronically and is valid without signature.			

Cupori Oy

Tel. +358 2 511 4111 Fax  
Domicile: Business ID: 2639859-8 VAT: FI26398598

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	Our reference 133082	Packing slip / Date PS537264	30.10.2020

Item	Product, Grade and Size	Cupori Item no.	Amount	Shop floor order
7	Cupori 221 Ref CO2 copper tube EN 12735-1 Cu-DHP R290 28.58X1.90 5000MM	P325517	320,400 kg	703475.7

According to: EN 12735-1

**Mechanical testing**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Rm (N/mm <sup>2</sup> )	443,000	443,000	290,000	
Rp 0.2 (N/mm <sup>2</sup> )	413,000	413,000		
Rp 0.5 (N/mm <sup>2</sup> )				
Rp 1.0 (N/mm <sup>2</sup> )				
Elongation (%)	7,000	7,000	3,000	
Grainsize (mm)				

**Method of control of dimensions**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Average WT	1,720	1,730	1,720	1,760
Average OD	28,580	28,650	28,530	28,630
Roundness	0,050	0,060		

Chemical composition %  
Cu-DHP/CW024A  
Cu min 99,90  
P 0,03

EDDY CURRENT TESTED: 100%

Electrical conductivity at 20 C % IACS(mass) annealed

We hereby certify, that the material described above complies with the order

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Item	Product, Grade and Size	Cupori Item no.	Amount	Shop floor order	
2	Cupori 221 Ref CO2 copper tube EN 12735-1 Cu-DHP R290 15.88X1.10 5000MM	P325514	319,900 kg	703478.2	
According to: EN 12735-1					
<b>Mechanical testing</b>					
Parameter tested		Measured		Specified/Reference(R)	
		Min.	Max.	Min.	Max.
Rm (N/mm <sup>2</sup> )		474,000	474,000	290,000	
Rp 0.2 (N/mm <sup>2</sup> )		447,000	447,000		
Rp 0.5 (N/mm <sup>2</sup> )					
Rp 1.0 (N/mm <sup>2</sup> )					
Elongation (%)		9,000	9,000	3,000	
Grainsize (mm)					
<b>Method of control of dimensions</b>					
Parameter tested		Measured		Specified/Reference(R)	
		Min.	Max.	Min.	Max.
Average WT		1,020	1,030	1,010	1,050
Average OD		15,880	15,890	15,840	15,920
Roundness		0,010	0,010		
Chemical composition % Cu-DHP/CW024A Cu min 99,90 P 0,03					
EDDY CURRENT TESTED: 100%					
Electrical conductivity at 20 C % IACS(mass) annealed		We hereby certify, that the material described above complies with the order			
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