

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
Mechanical testing				
Parameter tested		Measured Min.	Max.	Specified/Reference(R) Min. Max.
Rm (N/mm ²)		446,000	446,000	290,000
Rp 0.2 (N/mm ²)		414,000	414,000	
Rp 0.5 (N/mm ²)				
Rp 1.0 (N/mm ²)				
Elongation (%)		9,000	9,000	3,000
Grainsize (mm)				
Method of control of dimensions				
Parameter tested		Measured Min.	Max.	Specified/Reference(R) 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 ²)	443,000	443,000	290,000	
Rp 0.2 (N/mm ²)	413,000	413,000		
Rp 0.5 (N/mm ²)				
Rp 1.0 (N/mm ²)				
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

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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

Mechanical testing

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Rm (N/mm ²)	474,000	474,000	290,000	
Rp 0.2 (N/mm ²)	447,000	447,000		
Rp 0.5 (N/mm ²)				
Rp 1.0 (N/mm ²)				
Elongation (%)	9,000	9,000	3,000	
Grainsize (mm)				

Method of control of dimensions

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

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