

August Kleven AS Fynsvej 10-12 5500 Middelfart Denmark	Your order 23.1.2023	
	Our reference 140797	Packing slip / Date PS549106 24.02.2023

Item	Product, Grade and Size	Cupori Item no.	Amount	Shop floor order
1	35.00X1.50 12000MM R220 PUTKI C410	P338827	1 535,000 kg	140797.1

According to: EN 12449

**Mechanical testing**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Rm (N/mm <sup>2</sup> )	240	240	220	
Rp 0.2 (N/mm <sup>2</sup> )	38	38		110
Rp 0.5 (N/mm <sup>2</sup> )	48	48		
Rp 1.0 (N/mm <sup>2</sup> )	61	61		
Elongation (%)	52	52	40	
Grainsize (mm)	0,025	0,025		
Hardness				

**Method of control of dimensions**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Average WT		1,530	1,450	1,550
Average OD		35,060	34,850	35,150
Roundness		0,020		

Chemical composition %  
 Cu-DHP/CW024A  
 Cu min 99,90  
 P 0,0300

EDDY CURRENT TESTED: 100%

	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**

Kuparitie, P.O. Box 60, FI-28101, Pori, Finland,  
 Tel. +358 2 511 4111  
 Domicile: Pori Business ID: 2639859-8 VAT: FI26398598

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Item	Product, Grade and Size	Cupori Item no.	Amount	Shop floor order
2	42.00X1.50 12000MM R220 PUTKI C410	P320296	1 449,000 kg	140797.2

According to: EN 12449

**Mechanical testing**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Rm (N/mm <sup>2</sup> )	235	235	220	
Rp 0.2 (N/mm <sup>2</sup> )	38	38		110
Rp 0.5 (N/mm <sup>2</sup> )	48	48		
Rp 1.0 (N/mm <sup>2</sup> )	60	60		
Elongation (%)	54	54	40	
Grainsize (mm)	0,030	0,030		
Hardness				

**Method of control of dimensions**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Average WT		1,490	1,450	1,550
Average OD		41,990	41,850	42,150
Roundness		0,030		

Chemical composition %  
 Cu-DHP/CW024A  
 Cu min 99,90  
 P 0,0300

EDDY CURRENT TESTED: 100%

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Item	Product, Grade and Size	Cupori Item no.	Amount	Shop floor order
3	54.00X1.50 12000MM R220 PUTKI C410	P333548	1 632,000 kg	140797.3

According to: EN 12449

**Mechanical testing**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Rm (N/mm <sup>2</sup> )	233	233	220	
Rp 0.2 (N/mm <sup>2</sup> )	39	39		110
Rp 0.5 (N/mm <sup>2</sup> )	48	48		
Rp 1.0 (N/mm <sup>2</sup> )	60	60		
Elongation (%)	53	53	40	
Grainsize (mm)	0,025	0,025		
Hardness				

**Method of control of dimensions**

Parameter tested	Measured		Specified/Reference(R)	
	Min.	Max.	Min.	Max.
Average WT		1,510	1,450	1,550
Average OD		53,980	53,800	54,200
Roundness		0,040		

Chemical composition %  
 Cu-DHP/CW024A  
 Cu min 99,90  
 P 0,0300

EDDY CURRENT TESTED: 100%

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