

# DATA SHEET: SIBRASS CW724R



## SIBRASS CW724R



Antidezincyfing alloy with high mechanical properties.

Eco-friendly alloy of new generation, antidezincifying, arsenic-free with Pb < 0,1% and excellent mechanical properties and excellent chipability. Good attitude to the hot forging. The absence of lead make it ideal for use in contact with drinking water.

#### **NAME OF ALLOY**

**UNI EN:** CW724R - CuZn21Si3P **ASTM:** C69300

CHEMICAL COMPOSITION UNI EN 12165 ED.2016										
Cu	Pb	Sn	Fe	Ni	Al	Si	Mn	Р	Zn	Other elements
min. 75.0 max 77.0%	≤0.1 %	≤0.3 %	≤0.3 %	≤0.2 %	≤0.05 %	2.7 3.5 %	≤0.05%	0.02 0.10%	diff.	≤0.2%

Elements not listed must be ≤0.02 %.

Group of restriction of the surface in contact with drinking water:  $\mbox{\ensuremath{B}}\mbox{,D}.$ 

#### **HEAT TREATMENTS**

#### STRESS RELIEVING

Enables the redistribution of tensions induced by mechanical processing or cold plastic deformation reducing the risk of stress corrosion cracking.

The treatment consists of heating the items to 200°C - 250°C for 2 hours and cooling within the furnace.

The validation of the stress relieving treatment can be performed with the ISO 6957 test.

#### **OTHER TREATMENTS**

No other heat treatments are required.

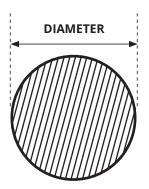
TECHNOLOGICAL PROPERTIES low excellent							
Structure	α+k+γ	Machinability					
Density	8.3 kg/cm <sup>2</sup>	Weldability					
Electrical conductivity	26% IACS	Hot forming					
Coeff. of thermal expansion	19.7 10 <sup>-6</sup> /K	Cold forming					
Thermal conductivity*	32 W/(m K)	Corrosion resistance**	<100 μm				
Specific heat	377 J/(kg K)						
Elasticity module	88 kN/mm <sup>2</sup>	*at room temperature **use care to ascertain compatibility witl	h chemical substances				
Melting point	830-920 °C						



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MECHANICAL PROPERTIES UNI EN 12165 ED.2016					
	Diamete	er in mm	Hardness HB		
Condition of material	from	to (included)	min.	max.	
M	All		As a product		
H130	8	80	130	220	

Any special hardness values must be defined when ordering

Rm N/mm <sup>2</sup>	Rp <sub>0.2</sub> N/mm <sup>2</sup>	А%
600-750*	350-450*	15-25*

<sup>\*</sup>The values shown are not regulated and are purely indicative.

DIMENSIONS, TOLERANCES, AND STRAIGHTNESS UNI EN 12165 ED.2016							
Nominal diameter		TOLERANCES		Diameter mm		Length of bar	Tolerance mm
(m	ım)	Class A	Class B				
10	18	+/- 0.25	+/- 0.14	10	30	3.0 - 5.0	+/- 100
18	30	+/- 0.30	+/- 0.17	30	50	3.0 - 5.0	+/- 200
30	50	+/- 0.60	+/- 0.20	50	80	3.0	+/- 300
50	80	+/- 0.70	+/- 0.37				
80	120	+/- 2					

The standard "Extruded calibrated" product is produced in Class B up to and including Ø80 mm Semi-finished products over Ø45 mm can be supplied in the "pressed" and "rolled" forms with Class A tolerance

Diameter (mm)		Deviation from straightness in mm				
		Every 400 mm	Every m of length L ≥ 1			
10	60	3.0	6.0 x L			

BAR FINISHING AND PACKAGING				
Bar ends	finishing with saw cut and chamfer			
Bar surface not pickled				
Packaging	1000 kg bundle – 3/5 metal straps different bundle packagings and quantities are possible upon request			
Identification	adhesive label on bundle strap			



COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV GL

= ISO 9001 = = ISO 14001 = = OHSAS 18001 =





**25030 Roncadelle (BS) - Via Vittorio Emanuele II n. 39** - Fully paid share capital € 2.000.000 Tel. +39 030 2789511 - Fax +39 030 2789680 (admin.) - Fax +39 030 2789690 (sales) F.C./VAT and Brescia Chamber of Comm. Reg. No. 03368970988 - R.E.A. No. 528368 - Cert. email almagspa@legalmail.it

