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TECHNICAL DATA SHEET

CW726R - CuZn36Si1P

GLOBRASS

(PATENTED)

RODS / HOLLOW RODS

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CW726R-CuZn36Si1P

Product Code	EN Symbol	EN No	ASTM		Cu	Zn	Pb	Sn	Fe	Ni	Al	Mn	P	Si	Others Total
GLOBRASS	CuZn36Si1P	CW726R	C68370	Min (%)	60,5	Rest	-	-	-	-	-	-	0,01	0,7	-
				Max (%)	64,5	Rest	0,10	0,2	0,2	0,2	-	0,2	0,10	1,3	0,3

(*) Each of the other elements< 0,02 %

Features And Applications

This product is patented lead-free brass. GloBrass is a new material with a copper content close to conventional leaded brass. Machinability and durability are well balanced, thinner bars can be supplied, so it is recommended for the mass production segment where lead-containing brasses are used. GloBrass has excellent cutting machinability, strength, wear resistance and hot malleability. the material complies with ELV, RoHS II and REACH directives.

Area of Usage

It is used in applications such as automotive parts, electrical parts and faucet parts etc.

Range of Products

Cold drawn and extruded bars, coils and hollow bars are produced in our extrusion and cold drawing department. Please enquire about suitable forms, dimensions and mechanical properties.

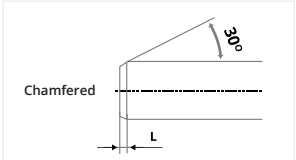
TECHNICAL SPECIFICATIONS

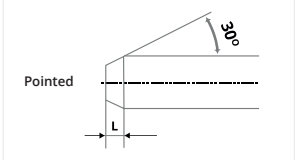
Structure	kappa+gama	**Melting Point**	860-925 °C
Machinability	%80	**Hot Forming**	580-650 °C
Density	8,25 g/cm³	**Soft Annealing**	550-650 °C
Electrical Conductivity	16 %IACS	**Soft Annealing Time**	1-3 Hours
Thermal Conductivity	73 W/(m.K)	**Stress Relieving**	200-300 °C
Elasticity Module	100 GPa	**Stress Relieving Time**	1-3 Hours
Coeff. of Thermal Expansion	19 10^{-6}/K	**Max. Depth of Dezincification**	-

INDICATIVE SHAPED ENDS DIMENSIONS

Nominal Diameter or Width		Type A – Chamfer Lenght (L)		Type B – Point Lenght (L)	
Across-Flats (mm)		**Min** (mm)	**Max** (mm)	**Min** (mm)	**Max** (mm)
Over	Up to and including				
8	10	0,2	1,5	2	7
10	20	0,2	2	3	10
20	30	0,2	3	4	12

Unless otherwise specifed by the buyer, the shape of the ends of products larger than 30 mm is up to the supplier.





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Nominal Diameter or Width Across-flats (mm) Over	Up to and including	Preferred (available) Lengths (mm)	Tolerance on Length (mm)
8inc.	30	3.000-4.000	±50
30	65	3.000-4.000	±100

Stress Relieving The polygonal rods and hollow rods are subjected to stress relieving treatment

Packaging 500 or 1000 kg bundle – 3/5 metal straps different bundle packagings, up to 10 mm dimension products are packed with wooden case

EN 12164 - Rods for Free Machining

Material Condition	Nominal Diameter (mm) Over	Up to and inc	Width Across-Flats (mm) Over	Up to and inc	Tensile Strength Rm N/mm² (MPa) Min	0,2 % Proof Strength N/mm² (MPa) Min	Max	Elongation A100mm (%) Min	A11,3 (%) Min	A (%) Min	Hardness (HBW) Max	Max
M	All		All		As manufactured							
R450	8	65	8	65	450	-	400	-	-	15	-	-
H090	8	65	8	65	-	-	-	-	-	-	90	180
R480	8	40	15	40	480	260	-	-	-	12	-	-
H120	8	40	15	40	-	-	-	-	-	-	120	210
R540	8	20	8	15	540	400	-	-	2	3	-	-
H150	8	20	8	15	-	-	-	-	-	-	150	220

EN 12168 - Hollow Rods for Free Machining

Material Condition	Wall Thickness (mm)		Tensile Strength Rm N/mm² (MPa) Min	0,2 % Proof Strength N/mm² (MPa) Min	Max	Elongation A (%) Min	Hardness (HBW) Min	Max	Hardness (HV) Min	Max
M	All			As manufactured						
R460	4	20	460	-	410	15	-	-	-	-
H100	4	20	-	-	-	-	100	180	100	190
R510	4	20	510	270	-	10	-	-	-	-
H130	4	20	-	-	-	-	130	210	130	220
R580	4	7	580	420	-	3	-	-	-	-
H150	4	7	-	-	-	-	150	-	160	-

EN 12165 - Wrought and Unwrought Forging Stocks

Material Condition	Nominal Diameter (mm) Over	Up to and inc	Hardness (HBW) Min	Max
M	All		As manufactured	

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STANDARD		EN 12164			EN 12165		EN 12168				
Dimension Range		Round Rod		Hexagonal, Square	Round Rod		Round and Hexagonal Hollow Rod, Outer Dim. Tol.		Hole Tolerance Round		Hole Tol. Hexagonal
Over	Up to & inc.	Class A	Class B	Rod	Class A	Class B	Class A	Class B	Class A	Class B	-
8	10	0 -0,06	0 -0,036	0 -0,09	±0,25	±0,14	-	-	-	-	-
10	13	0 -0,07	0 -0,043	0 -0,11	±0,25	±0,14	-	-	-	-	-
13	18	0 -0,07	0 -0,043	0 -0,11	±0,25	±0,14	-	-	±0,35	-	+0,70 -0
18	20	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	-	±0,42	-	+0,84 -0
20	23	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	0 -0,21	±0,42	-	+0,84 -0
23	26	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	0 -0,21	±0,42	-	+0,84 -0
26	30	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	0 -0,21	±0,42	-	+0,84 -0
30	50	0 -0,16	-	0 -0,16	±0,60	±0,20	-	0 -0,25	±0,80	-	+1,6 -0
50	55	0 -0,19	-	0 -0,19	±0,70	±0,37	-	0 -0,46	±0,95	-	-
55	65	0 -0,19	-	-	±0,70	±0,37	±0,60	0 -0,46	±0,95	-	-
65	80	-	-	-	±0,70	-	±0,60	0 -0,46	-	-	-
80	110	-	-	-	±2	-	-	-	-	-	-

For Hollow Rods

Minimum wall thickness is 4 mm. Eccentricity: %8 (max).
Minimum wall thickness is 5 mm over 65 mm.

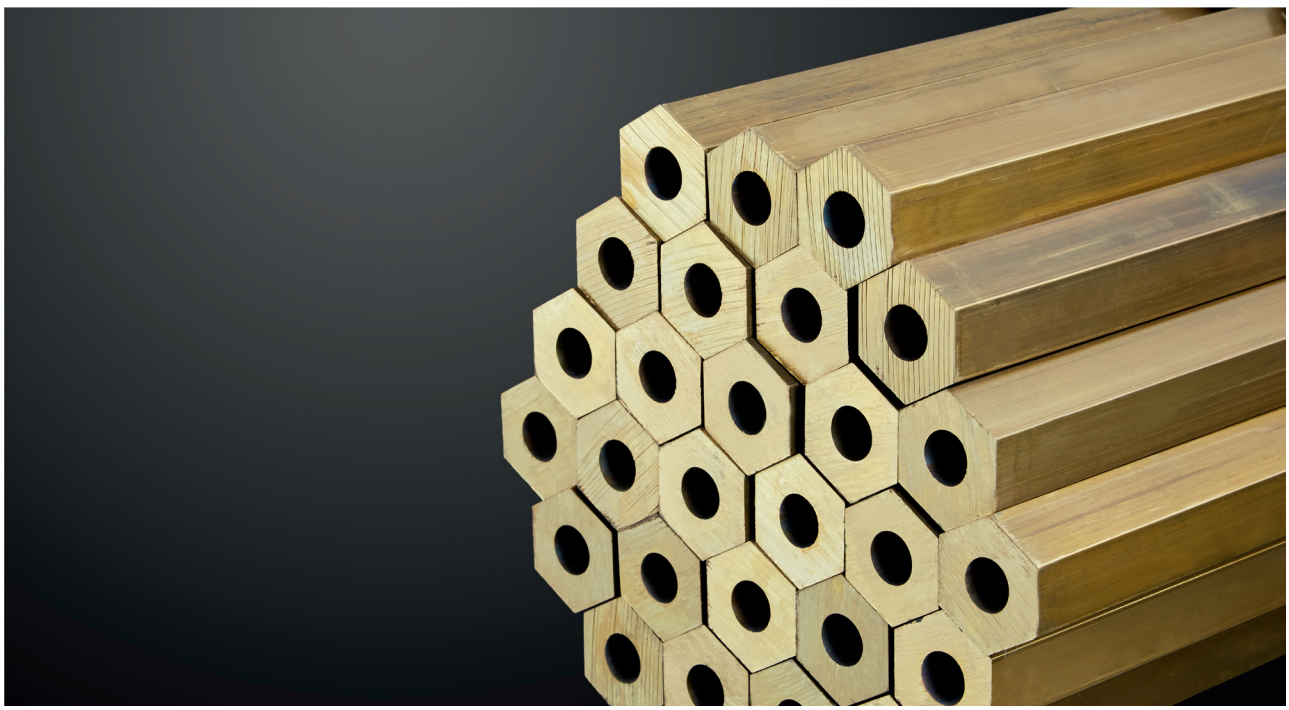
"For hollows, maximum outer diameter is Ø78 mm and maximum producible weight is 28 kg in 1 meter."

Outer Cold Drawn - Internal Extruded

Outer Class B - Hole Class A tolerance

Inner-Outer Extruded

Outer Class A - Hole Class A tolerance



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