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TECHICAL DATA SHEET

CW508L - CuZn37

S508- S508DW

RODS

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CW508L - CuZn37

Material Code	EN Symbol	EN No	ASTM		Cu	Zn	Pb	Sn	Fe	Ni	Al	Si	Others Total
S508	CuZn37	CW508L	C27200	Min (%)	62,0	Rest	-	-	-	-	-	-	-
				Max (%)	64,0	Rest	0,1	0,1	0,1	0,3	0,05	-	0,1
(*)S508DW	CuZn37-DW	CW508L-DW	C27200	Min (%)	62,0	Rest	-	-	-	-	-	-	-
				Max (%)	64,0	Rest	0,1	0,1	0,1	0,2	0,05	0,02	0,1

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

Features And Applications

Chips and parts can be mixed with MS58 group alloys. Also this alloy compliance with RoHS II and REACH directives. CW508L-DW alloy be used suitable for 4MS vs UBA list for drinking water applications.

4MS and UBA Hygienic list group for CW508L-DW alloy: B, C, D

Area Of Usage

Construction, automotive, gas, food, health, aviation, electrical, electronics, plumbing, drinking water products, accessories and fittings. Also this alloy suitable for drinking water application in USA and Canada Markets because of the lead content below 0.1%.

Range of Products

S509L and S509L-DW alloys can be produced in our extrusion and cold drawing unit as rods and profiles suitable for both forging and machining. Please contact us for other technical informations.

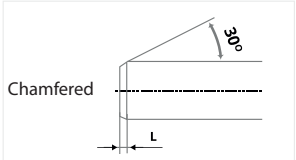
TECHNICAL SPECIFICATIONS

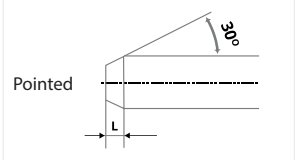
Structure	α+less β	**Melting Point**	880-920 °C
Machinability	%35	**Hot Forming**	720-820 °C
Density	8,44 g/cm³	**Soft Annealing**	450-650 °C
Electrical Conductivity	28 %IACS	**Soft Annealing Time**	1-3 Hours
Thermal Conductivity	121 W/(m.K)	**Stress Relieving**	200-300 °C
Elasticity Module	110 GPa	**Stress Relieving Time**	1-3 Hours
Coeff. of Thermal Expansion	20,2 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) Over	Up to and including	**Min** (mm)	**Max** (mm)	**Min** (mm)	**Max** (mm)
-	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-fats(mm)		Preferred (available) Lengths (mm)	Tolerance (mm)
Over	Up to and including		
10inc.	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 12163 - Rods for General Purposes

Material Condition	Nominal Diameter (mm)		Width Across-fats (mm)		Tensile Strength Rm N/mm² (MPa)	0,2 % Proof Strength N/mm² (MPa)		Elongation			Hardness (HBW)	
	Over	Up to and inc.	Over	Up to and inc.	Min	Min	Max	A100mm (%) Min	A11,3 (%) Min	A (%) Min	Max	Max
M	All		All		As manufactured							
R290	10	65	10	55	290	-	230	-	40	45	-	-
H070	10	65	10	55	-	-	-	-	-	-	70	110
R370	10	40	10	35	370	240	-	-	12	14	-	-
H105	10	40	10	35	-	-	-	-	-	-	105	145

EN 12165 - Wrought and Unwrought Forging Stocks

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

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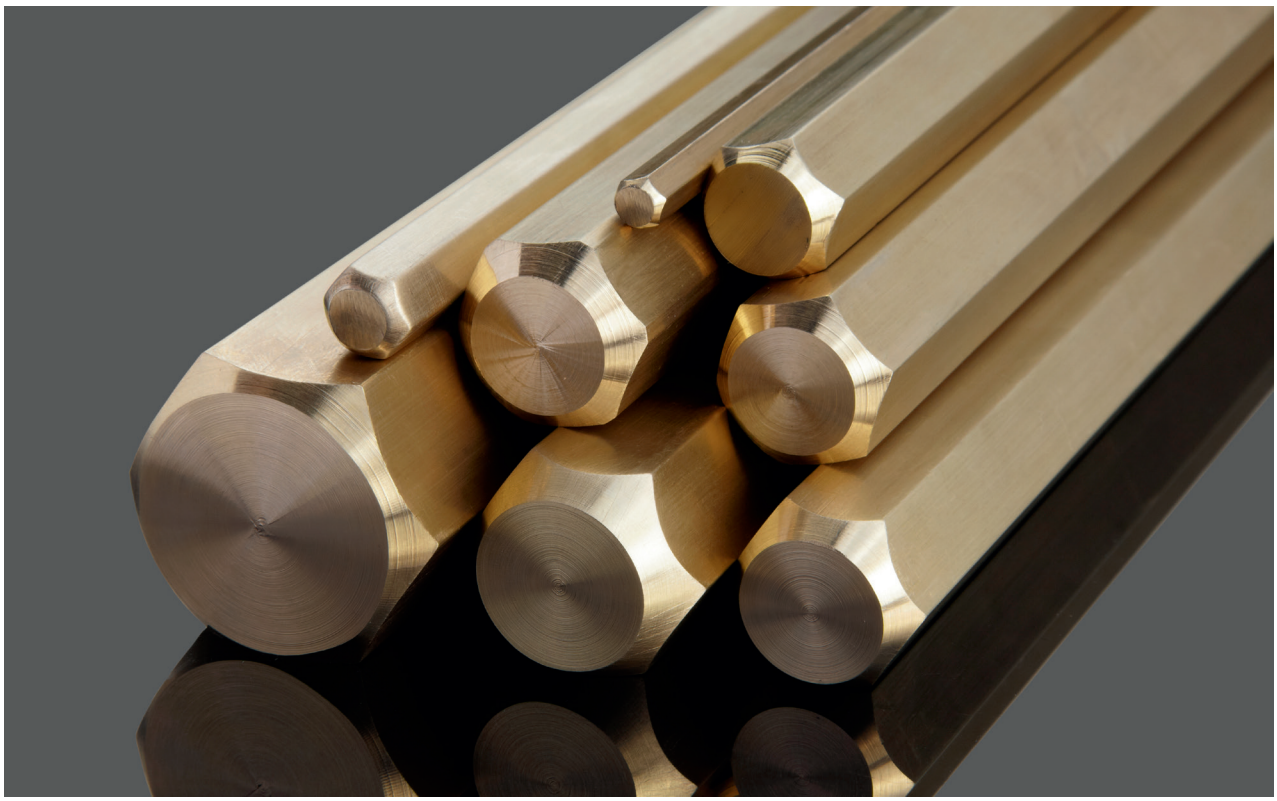
STANDARD		EN 12163		EN 12165		EN 12168				
Dimension Range		Round, Hexagonal and Square Rods		Round Rod		Round and Hexagonal Hollow Rod, Outer Dim. Tol.		Hole Tolerance Round		Hole Tol. Hexagonal
Over	Up to & inc.	Class A	Class B	Class A	Class B	Class A	Class B	Class A	Class B	-
-	10	±0,25	±0,14	±0,25	±0,14	-	-	-	-	-
10	13	±0,25	±0,14	±0,25	±0,14	-	-	-	-	-
13	18	±0,25	±0,14	±0,25	±0,14	-	-	-	-	-
18	20	±0,30	±0,17	±0,30	±0,17	-	-	-	-	-
20	23	±0,30	±0,17	±0,30	±0,17	-	-	-	-	-
23	26	±0,30	±0,17	±0,30	±0,17	-	-	-	-	-
26	30	±0,30	±0,17	±0,30	±0,17	-	-	-	-	-
30	50	±0,60	±0,20	±0,60	±0,20	-	-	-	-	-
50	55	±0,70	±0,37	±0,70	±0,37	-	-	-	-	-
55	65	±0,70	±0,37	±0,70	±0,37	-	-	-	-	-
65	80	-	-	±0,70	-	-	-	-	-	-
80	110	-	-	±2	-	-	-	-	-	-



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