### **DESCRIPTION**

CW511L is a lead free material suited for the use in drinking water applications. It can be used for water qualities that require dezincification resistant material. CW511L can be used where no high mechanical stresses occur. This alloy meets the requirements for dezincification resistant material according to ISO 6509.

## **CHEMICAL COMPOSITION**

Min (%)	Max (%)
61.50	63.50
	0.20
ing the country of the state of	0.10
Hilligh Blan	0.10
11 <sup>2</sup>	0.30
THE SERVEY - STARTS SERVEY	0.05
0.02	0.15
	atille I
Rema	inder
	61.50 - - - - - 0.02

# **MECHANICAL PROPERTIES (AS PER TEMPER R320)**

Range (mm)	From	То	UTS Min (N/mm²)	PS Min (N/mm²)	Elongation Min %	Hardness Min	Hardness Max
Round (Dia)	6	60	320	200	20	All P	Salle - Stilling
Hex (A/F)	5	50	320	200	20	JEIM - GAIM	-
Square (A/F)	5	50	320	200	20	-	- //

## **PHYSICAL PROPERTIES**

	200			
Coefficient of Thermal Expansion	21.7 10 -6 (20-300 C			
Density	8.41 gm/cm3 @ 20 C			
Electrical Conductivity	0.164 MegaSiemens /cm @ 20 C			
Electrical Resistivity	6.15 microhm-cm @ 20 C			
Melting Point Liquid US	904 C			
Melting Point Solid US	899 C			
Modulas of Elasticity in Tension	103400 MPa			
Modulas of Rigidity	38610 MPa			
Specific Gravity	8.39			

## **FABRICATION PROPERTIES**

Joining Technique	Suitability		
Brazing	Excellent		
Butt Weld	Good		
Capacity for Being Cold Worked	Fair		
Capacity for Being Hot Formed	Excellent		
Coated Metal Arc Welding	Not Recommended		
Forgeability Rating	90		
Gas Sheilded Arc Welding	Fair		
Machinability rating	40		
Oxyacetylene Welding	Good		
Seam Weld	Not Recommended		
Soldering	Excellent		
Spot Weld	Good		

## TYPICAL USES

- > Plumbing
- Plumbing Fitting
- Forging
- Bending
- Riveting