

CW724R (CuZn21Si3P)

Smiths High Performance



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Lead-Free Performance Brass

CW724R is a lead-free brass product which offers high tensile strength and hardness.

The brass alloy offers superior resistance to stress corrosion cracking (SCC) and dezincification.

Hot formability is very good, while cold formability is fair. The alloy meets EU drinking water requirements along with ELV and RoHS directives and, therefore, finds use in water systems and sanitary applications. CW724R also benefits from good machinability and corrosion resistance.

The product is highly suitable for high strength applications subjected to high loads.

Applications:

- Valve stems
- Automotive components
- Pneumatics
- Drinking water applications



Chemical Composition (nominal wt. %)

	Cu	Al	Fe	Mn	Ni	P	Pb	Si	Sn	Zn	Other Elements	
Min.	75.00					0.02		2.70		Rem		
Max.	77.00	0.05	0.30	0.05	0.20	0.10	0.10	3.50	0.30	Rem	0.20	

* Properties as per BS EN12164

Physical Properties

Density	8.25 g/cm ³
Melting Point	860°C to 925°C
Modulus of Elasticity	110, 300 N/mm ²
Electrical Conductivity	7,8 % IACS
Thermal Conductivity	33 W m ⁻¹ K ⁻¹
Thermal Expansion	20 µm m ⁻¹ K ⁻¹


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