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CDA 681 (RBCuZn-C) TECHNICAL DATA

NOMINAL COMPOSITION	Copper Zinc Iron Tin Manganese Lead Aluminum Silicon Other Elements, Total	58.0% ± 2.0 Remaining 0.75% ± 0.45 0.95% ± 0.15 0.255% ± 0.245 0.05% Max 0.01% Max 0.095% ± 0.055 0.50% Max
PHYSICAL PROPERTIES	Color Solidus Liquidus Recommended Brazing Temperature Density (lbs./in³) Specific Gravity Electrical Conductivity (%IACS) Electrical Resistivity (Microhm-cm)	Brass Yellow 1590°F (866°C) 1630°F (888°C) 1680-1730°F (915-943°C) 0.30 8.36 24.0 7.18
USES	CDA 681 is a low fuming bronze filler metal used for brazing of ferrous and non- ferrous allows such as steel and copper. This alloy is typically used where close fit up cannot be maintained and high brazing temperatures are permissible.	
BRAZING CHARACTERISTICS	CDA 681 has good wetting characteristics on ferrous and non-ferrous materials particularly steels and coppers. Maximum strength and joint integrity are obtained where joint clearance falls within the range of 0.003in – 0.005in per side. Heating methods include torch, induction and furnace.	
PROPERTIES OF BRAZED JOINTS	The properties of a brazed joint are dependent upon numerous factors including base metal properties, joint design, metallurgical interaction between the base metal and the filler metal.	
SPECIFICATIONS	CDA 681 alloy conforms to: Unified Numbering System (UNS) C68100 and American Welding Society (AWS) A5.8/A5.8M RBCuZn-C	
AVAILABLE FORMS	Wire, strip, engineered preforms, specialty preforms per customer specification, powder and paste.	

Individuals requiring further information and Engineering Specification Documents may wish to contact the Engineering Society for Advanced Mobility, Land Sea Air and Space, The Society of Automotive Engineers http://www.sae.org/ (SAE AMS) or The American Welding Society (AWS) http://aws.org/

NOTE:

DISCLAIMER

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