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APA 3 (Cusil+2) TECHNICAL DATA

Copper Titanium Cadmium	us	27.0% ± 0.5 2.0% ± 0.25 0.001% max. 0.001% max.
	us	0.001% max.
Cadmium	us	
	us	0.001% max
Zinc	us	0.00170 max.
Phosphor		0.002% max.
NOMINAL Lead		0.002% max.
COMPOSITION Carbon		0.005% max.
Other vola	tile elements each*	0.002% max.
Volatile el	ements total	0.010% max.
Total non-	volatile elements	0.01% max.
	*Elements with a vapor pressure higher than 10 ⁻⁷ torr at 932°F (such as Mg, Sb, K,	
Li,Tl,S,Cs,Rb,Se,Te,Sr, and Ca) are limited to 0.001% each for Grade 1 and 0.002% f Grade 2.		to 0.001% each for Grade 1 and 0.002% for
Color		Dark Grey
Solidus		1436°F (780°C)
PHYSICAL Liquidus		1481°F (805°C)
PROPERTIES Recomme	nded Brazing Temperature	1581-1631°F (861-888°C)
Density (T	oz/in³)	5.15
Specific G	ravity	9.78
	Suitable for brazing ceramics to metals as well as other non-metallic components without the need for prior metallization of the contact surface.	
BRAZING atmosphe CHARACTERISTICS pressure atmosphe oxygen-fr wettability vacuum b	Suitable for use in all vacuum brazing applications as well as under partial pressure of argon gas. Brazing of active alloys under protective nitrogen atmosphere is not recommended. It is important to maintain a high purity, oxygen-free environment; any oxidation of reactive elements will limit alloy wettability across the non-metallic surface. For controlled atmosphere brazing or vacuum brazing the recommended radial joint clearance for silver-base alloys ranges between 0-0.002 in (0-0.05 mm).	
BRAZED JOINTS and brazil	The properties of a brazed joint are dependent upon the base metal, joint design and brazing technique. This alloy in particular is ductile and will exhibit exceptional corrosion resistance due to the high silver content.	
SPECIFICATIONS APA 3 (C	APA 3 (Cusil+2) conforms to: NA	
AVAILABLE FORMS Available	Available in powder and paste.	
INFORMATION to the pro	The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1, "Safety in Welding and Cutting."	

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:

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