

Product Data Sheet



Product **COBAR-F3+** No-clean solder paste
 Date 18-10-12
 Release 12.02

LEGEND	
5	Especially made for this purpose
4	Generally qualified for this purpose
3	Generally usable, but not the best choice
2	Generally not usable for this purpose
1	Wrong choice

ALLOY CODE	ALLOY COMPOSITION
SAC3	Sn96.5Ag3Cu0.5
SN100C	Sn99.3Cu0.7NiGe
SCANGe	Sn98.3Cu0.7Ag1NiGe
SN62	Sn62Pb36Ag2
SN63	Sn63Pb37

ALLOY CODE	SAC3	SN100C	SCANGe	SN62	SN63
ISO 9454-1			1.2.3.C		
IPC-ANSI-J-STD-004			RELO		
IPC-ANSI-J-STD-005 (Powder)			compliant		
No-Clean process			5		
Post-solder cleaning			3		
Vapor phase process	4	5		4	
Consumer electronics			5		
Standard industrial electronics			5		
Hi-Rel electronics (automotive)			4		
Fine-pitch (<= 0.5 mm)			4		
OSP compatible			5		
Ni/Au compatible			5		
Ag/Pd compatible			4		
Ni/Pd compatible			4		
Ag compatible			5		
Sn compatible			5		
SnPb Profile Air	1			5	
SnPb Profile N2	1			5	
Lead-free Profile Air, short		5			3
Lead-free Profile Air, long		4			3
Lead-free Profile N2		5			3
Squeegee			5		
ProFlow			3		
Rheopump			3		
Dispensing (> awg 22]			2		
Short cycle time			5		
Long stencil-life			5		
Long open time			5		
Sharp print definition	4			5	
Reduces dog ears			4		
Reduces smearing		4			5
Reduces stencil wiping			4		
Reduces solder balling			4		
Reduces solder beading			4		
Reduces bridging			5		
Reduces tombstoning	4		5		4
Reduces de-wetting			5		
Reduces slumping			5		
Reduces voiding			4		
Brilliant joint appearance	4		3		4
Cosmetic cleanliness			4		
ICCT compatible			5		
Conformal coating			4		

ALLOY CODE	SAC3	SN100C	SCANGe	SN62	SN63
Flux code				F3+	
Alloy code	SAC3	SN100C	SCANGe	SN62	SN63
Particle size class IPC	T3 (25 µm - 45 µm) - X				
	T4 (20 µm - 38 µm) - H				
PROPERTIES					
Liquidus [C]	219	227	224	179	183
Solidus	217	227	217	179	183
Recommended peak temp. [C]	240	242	240	215	215
Oxide content powder [ppm]	100				
Acid number [mg KOH] +/- 2.5%	124.30				
Halides [Silver-Chromate Test]	PASS				
Halides [Potentiometric]	PASS				
Flux [% w/w]	12.00		10.61		
Metal [% w/w]	88.00		89.39		
Filmformer(s)	Resin				
Color of the residue	None				
Viscosity @ 25°C [Pa.s]					
Plate/Plate Tol+/- [%]	18		190		
Malcom PCU205 Tol+/- [%]	18		180		
Max. speed [mm/sec] 0.4mm QFP	150	160	150	160	
Rec.separation speed [mm/sec]	10				
Tackiness time 20°C/ 70%RH [H]	24				
Tackiness force Malcom TK1 [gr]	110				
TEST REPORTS					
Bellcore TR-NWT-000078/3	compliant				
IPC/ANSI-J-STD-005	compliant				
Certificate of Compliance	website				
SPC-data	auditable				
RoHS-Compliant	Yes		No		
User's Guidelines	english				
VOC content [% w/w]	0				
PACKAGING AND STORAGE					
Packaging jar	500				
Packaging cartridge	650				
Packaging cartridge	1300				
Packaging Cassette Pro-Flow	800		850		
Recommended shelf-life in weeks					
Storage temperature [C]	8		25		
Storage temperature [C]	20		6		

Check material compatibility with every process change!

Industrial chemical product.

Read MSDS before use.

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