

Product **COBAR-OT2**

No-clean solder paste

Date 10-11-11

Release 11.01

Legend	
5	<i>Especially made for this purpose</i>
4	<i>Generally qualified for this purpose</i>
3	<i>Generally usable, but not the best choice</i>
2	<i>Generally not usable for this purpose</i>
1	<i>Wrong choice</i>

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	1.1.3.C				
IPC-ANSI-J-STD-004	ROL0				
IPC-ANSI-J-STD-005 (Powder)	compliant				
No-Clean process	5				
Post-solder cleaning	4				
Vapor phase process	4	3	5	4	
Consumer electronics	5				
Standard industrial electronics	5				
Hi-Rel electronics (automotive)	5				
Fine-pitch (= < 0.5 mm)	5				
OSP compatible	5				
Ni/Au compatible	5				
Ag/Pd compatible	5				
Ni/Pd compatible	5				
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	5			3	
Lead-free Profile N2	5			3	
Squeegee	5				
ProFlow	4				
Rheopump	3				
Dispensing [ > awg 22]	2				
Short cycle time	5				
Long stencil-life	5				
Long open time	5				
Sharp print definition	5				
Reduces dog ears	5				
Reduces smearing	5				
Reduces stencil wiping	4				
Reduces solder balling	5				
Reduces solder beading	4				
Reduces bridging	5				
Reduces tombstoning	4	3	5	4	
Reduces de-wetting	5				
Reduces slumping	5				
Reduces voiding	4				
Brilliant joint appearance	5	3		5	
Cosmetic cleanliness	5				
ICCT compatible	5				
Conformal coating	5				

ALLOY CODE	SAC3	SN100C	SCANGe	SN62	SN63
Flux code	OT2				
Alloy code	SAC3	SN100C	SCANGe	SN62	SN63
Particle size class IPC	T3 (25 µm - 45 µm)				
	T4 (20 µm - 38 µm)				
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%	60.6				
Halides [Silver-Chromate Test]	PASS				
Halides [Potentiometric]	PASS				
Flux [% w/w]	11-12				
Metal [% w/w]	88-89				
Filmformer(s)	ROSIN				
Color of the residue	none				
Viscosity @ 25°C [Pa.s]					
Plate/Plate Tol+/-[%]	18			220	
Malcom PCU205 Tol+/-[%] *	18			210	
Max. speed [mm/sec]	0.4mm QFP			250	
Rec.separation speed [mm/sec]				10	
Tackiness time 20°C/ 70%RH [H]				32	
Tackiness force Malcom TK1 [gr]				100	
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!

\* This is a calculated value from the Plate/Plate determination

\*\* Certain conditions apply.

\*\*\*\* Having a vapour pressure of >0.1mm Hg at 20 °C

Industrial chemical product.

Read MSDS before use.

**Disclaimer:**

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