

Low Ag solder paste

**S1XIG series** Sn 1.1Ag 0.7Cu +Ni

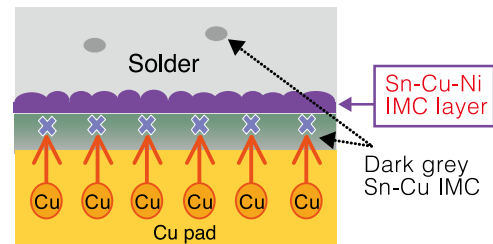
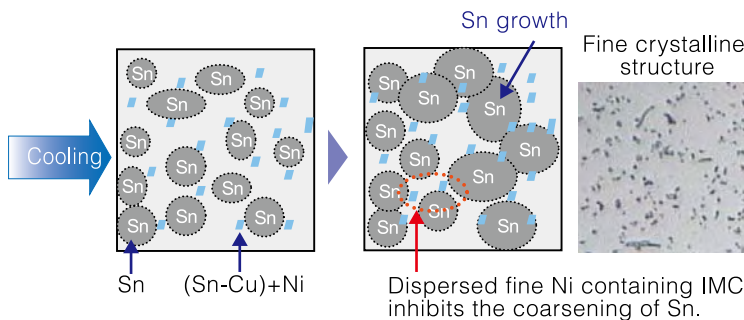
JPN PAT. #3296289

Develops original low Ag alloy with high joint reliability by adding Ni

**Inhibits the growth of Sn grain & Sn-Cu type IMC by Sn-Cu-Ni type barrier layer**

■ Solder coagulation process (image)

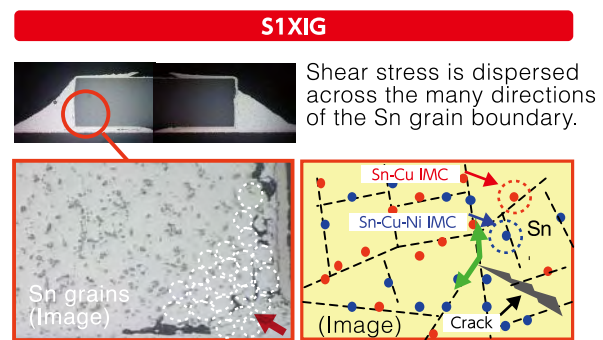
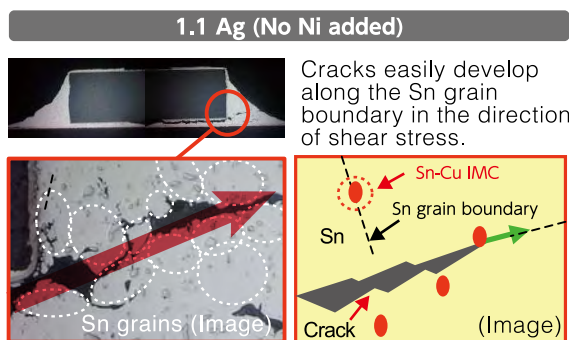
■ Inhibition of Cu diffusion



**Inhibits the development of cracks during thermal cycling**

S1XIG maintains a fine crystalline structure of solder and forms more Sn grain boundary even after thermal cycling. This also inhibits the development of cracks during thermal cycling.

■ Cross sectional image after TC test (Conditions: -40⇔125°C 30min. each 1000 cycles Component: 6330 chip)



Product specifications		
Product name	S1XIG58-M500C	S1XIG58-M500-3
製品タイプ	Standard	Halogen free
合金組成 (%)	Sn 1.1Ag 0.7Cu +Ni	
融点 (°C)	217-224	
粉末粒度 (μm)	20-38	
粘度 (Pa·s)	220	
フラックス含有量 (%)	11.5	
ハライド含有量 (%)	0	
フラックスタイプ	ROLO	

0.1Ag+α Solder alloy	<b>Low Ag</b>	Anti-pillow defect
Low voiding		Fine pitch printing >0.4mm pitch >0.3mm dia. CSP
Applicable for high pre-heating reflow		Tack time >48hours
No clean type	<b>No-clean</b>	

Flux cored solder wire	
Product name	S1XIG-70M
Alloy composition (%)	Sn 1.1Ag 0.7Cu +Ni
Melting point (°C)	217-224
Flux content (%)	3.2
Halide content (%)	0.09
Flux type	ROL1
Diameter (mm)	0.3 0.4 0.5 0.6 0.8 1.0 1.2 1.6