

Comparison Data
-Anti-Erosion of Soldering Iron Bit-
S03X7Ca-56M Solder Wire



ADTOOL Corporation 1-800-361-6727 www.adtool.com

Corrosion resistance of Co-containing lead-free solder

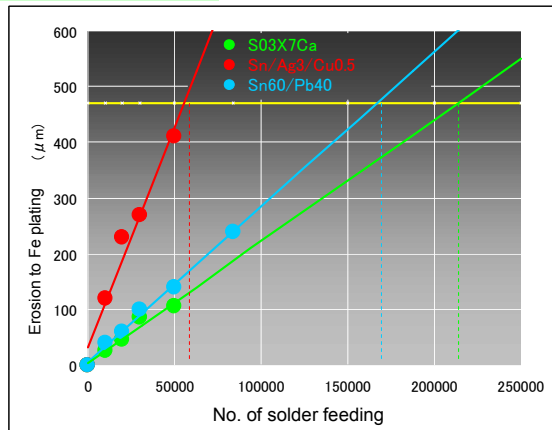
	The Number of Feeding Solder wire			
	10,000 times	20,000 times	30,000 times	50,000 times
S03X7Ca				
SAC305				
Sn60Pb40				

Anti-erosion lead-free solder: S03X7Ca

Alloy composition: Sn/Ag0.3/Cu0.7/Co0.03/α
Melting point: 217-227°C

For 470 μm-thick Fe plating on soldering bit to get eroded completely, solder must be fed for:

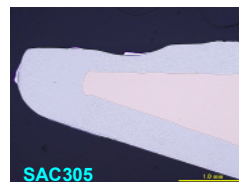
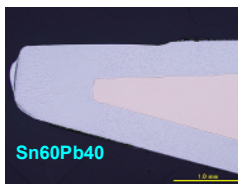
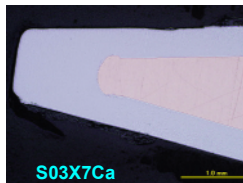
- Sn/Ag3/Cu0.5: 60,000 times**
- Sn60/Pb40: 170,000 times**
- as opposed to**
- S03X7Ca: 210,000 times**



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Anti-erosion flux cored solder wire S03X7Ca-56M

Using cost effective low-Ag containing lead free solder, S03X7Ca-56M achieves excellent workability over Sn/Ag3/Cu0.5 with Co and other elements added to alleviate Cu erosion of soldering iron bit.



***After 20,000 times of feeding solder wire**