SMIC
Senju Metal Industry Co., Ltd.

松香芯焊锡丝

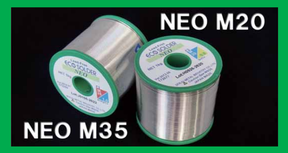
FLUX CORED

低银，创造企业的未来

NEO M35/M20 成本减半 低银 M35、无银 M20

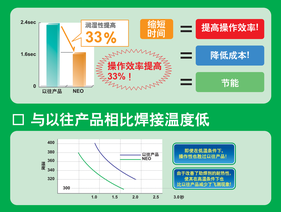
特 点

- 在短时间内呈现稳定的润湿性，能提高自动控制装置的生产效率。
- 抑制焊料和助焊剂飞散。

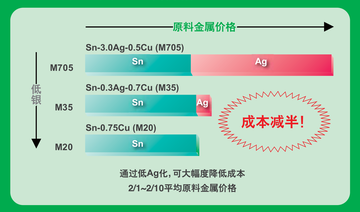


□ 焊料润湿速度比较（椭圆形状比较）

□ 操作效率提高33%！

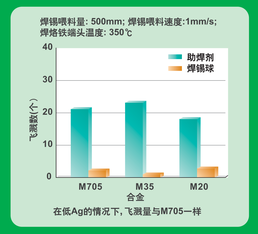


□ 不同合金的原料金属价格

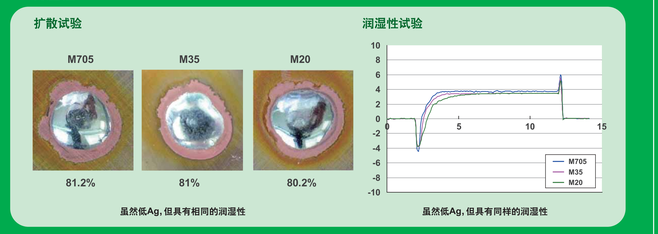


□ 与以往产品相比焊接温度低

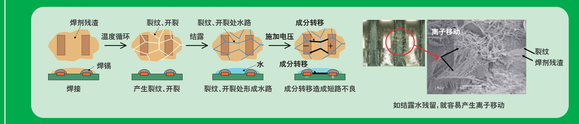
□ 不同合金的飞溅量



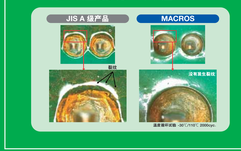
□ 润湿性



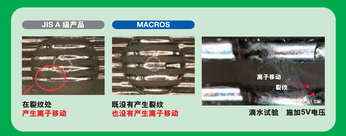
□ 焊剂开裂造成成分转移的原因



□ 进行温度循环试验



□ 温度循环后的滴水试验结果

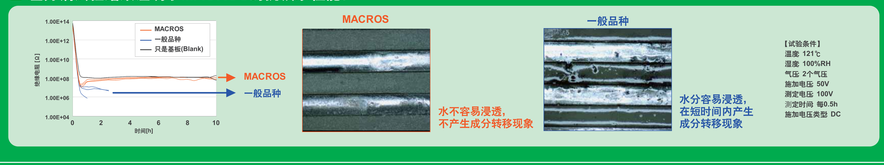


“MACROS”可防止结露造成成分转移 MACROS

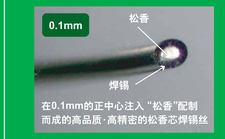
特 点

- 在车载等温度剧烈变化的环境下，焊剂残渣也不开裂
- 焊剂残渣附着性和拒水性强，可抑制成分转移的发生
- 适用于激光焊接，不产生激光固有的焊剂飞溅

□ 压力锅试验结果证明了MACROS的抗吸水性能！



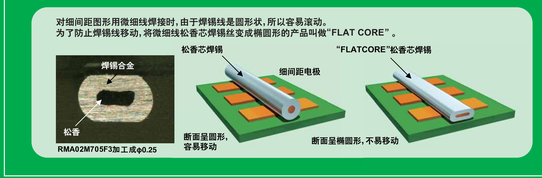
提高强度的、φ0.3mm未满的专用松香芯焊锡丝 EFC



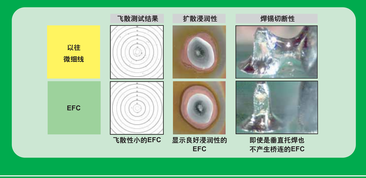
- 制造松香芯焊锡的伸线工程稳定，提高强度等质量。
- 与以往的微细松香芯焊锡丝相比，飞散量少，即使是垂直托焊也可抑制桥连、切断性良好的材料。

特 点

□ 为了能准确焊接，将微细线变成椭圆形



□ 极细专用芯焊锡丝，性能提高



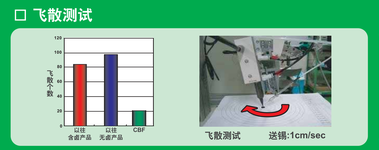
CBF 无卤素芯焊锡丝

特 点

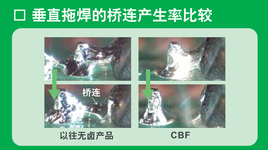
- 满足苹果公司标准的非卤素规格
- 直线焊接实装也可抑制桥连的发生
- 耐热性优异，适于长时间施加热的工法

□ 特性表

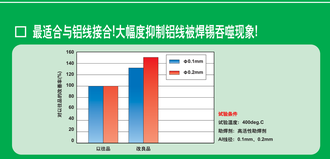
□ 飞散测试



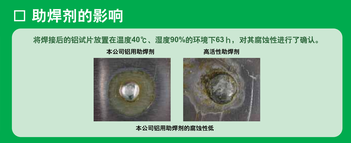
□ 垂直拖焊的桥连产生率比较



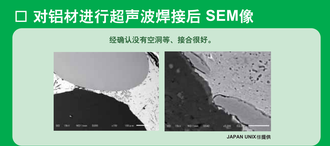
□ 最适合与铝线接合!大幅度抑制铝线被焊锡吞噬现象!



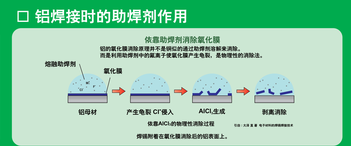
□ 助焊剂的影响



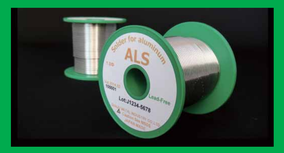
□ 对铝材进行超声波焊接后 SEM像



□ 铝焊接时的助焊剂作用



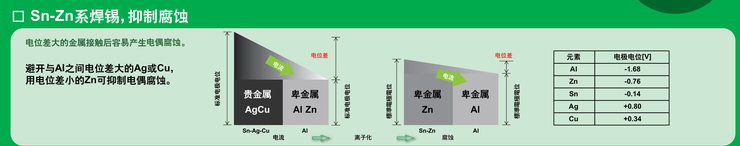
铝材专用焊锡 ALS



特 点

- 铝材专用，保证良好的接合
- Sn-Zn系焊锡，抑制电位腐蚀

□ Sn-Zn系焊锡，抑制腐蚀



元素	电极电位[V]
Al	-1.68
Zn	-0.76
Sn	-0.14
Ag	+0.80
Cu	+0.34

Smart Connection