

Core Solder (High Reliability & Workability)

Provides high and stable workability and reliability of JIS AA grade.

SR-38RMA LFM-48

SR-38RMA LFM-48 achieves JIS-AA level reliability. Initial wettability is good from low temperature range. It significantly improves working speed. Note also that high controllability improves the tip detachability, reducing the heat affecting the component substrates. SR-38 RMA LFM-48 achieves both the highest reliability and workability.



[Examples of application] ●Sn-Ag-Cu alloy ●Sn-Cu alloy/Industrial devices, automotive substrates, general electronics, through-hole substrates, robot soldering, etc., where reliability is important.

Initial wettability and wetting spreadability

Meets JIS AA standard for core solders and provides good initial wettability at low temperature range. Guarantees stable and reliable soldering performance.

■High temperature (350°C)

Competitor's product					Wetting starts at: After 1.60 seconds Wetting time: 0.83 seconds
	0 sec.	After 2 sec.	After 3 sec.	After 4 sec.	
SR-38RMA LFM-48					Wetting starts at: After 1.36 seconds Wetting time: 0.80 seconds

■ Initial wettability (350°C)

	Competitor's product	SR-38RMA LFM-48
Wetting start time	After 1.60 sec.	After 1.36 sec.
Wetting time	0.83 sec.	0.80 sec.

■ Spreadability (350°C)

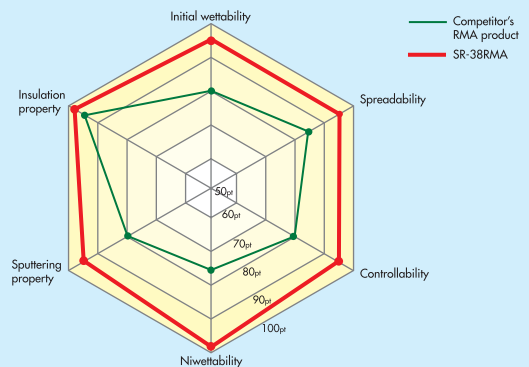
	Competitor's product	SR-38RMA LFM-48
Oxidized copper plate	84.1%	84.6%
Nickel plate	73.1%	77.1%

■Comparison of performance of SR-38RMA with competitor's product

	Competitor's RMA product	SR-38RMA
Solder spreading method [%]	80.7	82.9
Copper plate corrosion test	Passed	Passed
Water extract resistivity test [Ω m]	1,000	1,500
Dryness test	Passed	Passed
Insulation resistance test [Ω]	1X10 ⁹ or higher	1X10 ⁹ or higher
Voltage applied moisture resistance test	1X10 ⁹ or higher	1X10 ⁹ or higher
Migration test	—	No migration
Sputtering test[piece]	320[°C]	40
	350[°C]	24
	380[°C]	18

■Spreadability on various pour wetting metals

Flux	Competitor's RMA product	SR-38RMA
Brass plate [%]	80.9	82.2
Phosphor bronze plate [%]	81.5	85.7
Nickel plate [%]	76.6	78.6



Customer's comment <<Major mobile phone manufacturer>>

Effective in correction by soldering some parts in the later process.

It is highly reliable, excellent in wetting speed and controllability, and easy to attach narrow-pitch components in the later process and to correct bridges. Surface finish is speedy and beautiful, preventing problems such as burning dry and peeling off patterns.

Product name component for Core Solders

SR-38RMA LFM-48 3.5% 1.0 ϕ
Flux + Alloy + Flux Content + Wire Diameter

Core Solders products specification

Flux	Alloy composition	Flux Content	Melting Temperature	Wire Diameter
SR-38RMA	LFM-48 (Sn-3.0Ag-0.5Cu)	3.5%	217-220°C	0.5, 0.65, 0.8, 1.0, 1.2, 1.6
	LFM-22 (Sn-0.7Cu)		227°C	

※LFM-48 holds the sublicenses for JP PAT No.3027441 and US PAT No. 5527628

※Ask Almit sales representative for availability of the type and wire diameter in detail.