



INVENTEC
500 Main Street, Suite 18
PO Box 989
Deep River, CT 06417 USA

Toll Free: 800.435.0317
Phone: 860.526.8300
Fax: 860.526.8243
www.amtechsolder.com

NC-559-ASM-TF, No-Clean Tacky Flux

Product Data Sheet

Product Highlights

- ROL0 flux classification
- Wide process window
- Excellent wetting compatibility on most board finishes
- Clear residue
- High temperature compatible

Application

NC-559-ASM-TF is formulated for syringe, stencil printing, and rework applications on all PCB surface finishes. NC-559-ASM-TF may be used for BGA sphere attachment and reballing. NC-559-ASM-TF is also designed to work on all flip chip bumping and chip scale packaging sites.

Compatible Alloys

Alloy	Temp °C	Temp °F
63Sn/37Pb	183	361
62Sn/36Pb/2Ag	179	354
62.8Sn/36.8Pb/0.4Ag	179-183	354-361
60Sn/40Pb	183-191	361-376
43Sn/43Pb/14Bi	144-163	291-325
42Sn/58Bi	138	280
10Sn/88Pb/2Ag	268-290	514-554

Test Results

Test J-STD-004 or other requirements (as stated)	Test Requirement	Result
Copper Mirror	IPC-TM-650: 2.3.32	L: No breakthrough
Corrosion	IPC-TM-650: 2.6.15	L: No corrosion
Quantitative Halides	IPC-TM-650: 2.3.28.1	L: <0.5%
Electrochemical Migration	IPC-TM-650: 2.6.14.1	L: <1 decade drop (no-clean)
Surface Insulation Resistance 85 °C, 85% RH @ 168 Hours	IPC-TM-650: 2.6.3.7	L: 100 M (no-clean)
Viscosity - Malcom @ 10 RPM/25 °C (x10 ³ mPa/s)	IPC-TM-650: 2.4.34.4	40-52
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Conflict Minerals Compliance	Electronic Industry Citizenship Coalition (EICC)	Compliant
REACH Compliance	Articles 33 and 67 of Regulation (EC) No 1907/2006	May contain up to 7% w/w of ethoxylated 4-nonylphenol

NC-559-ASM-TF, No-Clean Tacky Flux

Cleaning

NC-559-ASM-TF is a no-clean tacky flux that can be left on the board for many SMT assemblies. For applications requiring cleaning, NC-559-ASM-TF can be cleaned using commercially available flux residue removers such as INVENTEC Promoclean™ and Promosolv™ cleaning chemistries.

Recommended Profile

This profile is designed to serve as a starting point for process optimization using NC-559-ASM-TF. To achieve better results with voiding or to reduce tombstoning, consider using a longer soaking zone, (140-180 °C) for 60-90 seconds, with a rapid pre-heat stage. If there is evidence of solder de-wetting, consider lowering the peak reflow temperature, or reduce the time above liquidus to <60 seconds.

Storage and Handling

Tacky flux should be stored at room temperature (20-25 °C). Syringes and cartridges should be stored vertically with the dispensing tip down. Properly stored tacky flux has a 12 month shelf life.

Packaging

10 & 30cc syringes
75 & 150 gram jars
170 & 340 gram cartridges

