

NC-669-HF No-Clean Lead Free&Halogen Free Tacky Flux

Product Data Sheet

Product Highlights

- ROL0 flux classification
- Optimized for Lead-free and standard alloy systems
- Designed for LGA, BGA, and CSP components
- Halogen free per EN14582 test method
- Excellent wetting on all common surface finishes
- Clear residue
- Low voiding
- REACH compliant

Application

NC-669-HF is formulated for syringe, stencil printing, and rework applications on all PCB surface finishes. NC-669-HF may be used for BGA sphere attachment and reballing. NC-669-HF is also designed to work on all flip chip bumping and chip scale packaging sites.

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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
42Sn/58Bi	138	280
42Sn/57Bi/1Ag	138	280
96.5Sn/3.0Ag/0.5Cu	217-220	423-428
99.0Sn/0.3Ag/0.7Cu	217-221	423-430
96.5Sn/3.5Ag	221	430
99.3Sn/0.7Cu	227	441
95Sn/5Sb	235-240	455-464
95Sn/5Ag	221-245	430-473

Test Results

Test J-STD-004 or	Test Requirement	Result
other requirements (as stated)		
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,	IPC-TM-650: 2.6.3.7	L: ≥100 MΩ (No-clean)
85% RH@ 168 Hours		
Viscosity - Malcom @ 10 RPM/25 oC	IPC-TM-650: 2.4.34.4	40-65
(x10₃mPa/s)		
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	Contains no substance
	(EC) No 1907/2006	>0.1% w/w that is listed
		as a SVHC or restricted
		for use in solder materials

NC-669-HF, No-Clean Chemicals

Cleaning

NC-669-HF is a no clean tacky flux that can be left on the board for many SMT assemblies. For applications requiring cleaning, NC-669-HF can be cleaned using commercially available flux residue removers such INVENTEC Promoclean[™] and Promosolv[™] cleaning chemistries.

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

Recommended Profile

This profile is designed to serve as a starting point for process optimization using NC-669-HF. To achieve better results with voiding or to reduce tombstoning, consider using a longer soaking zone 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 <90 seconds.

