

NC 256 No Clean Flux Product Datasheet

Almost Zero Flux Residues

Excellent Soldering Wetting

Eliminate Cleaning Process

Description

NC 256 is a no clean flux and zero residues after soldering reflow. During reflow there is no contamination on the neighboring component or solder ball. NC 256 has been designed for CSP, BGA, Flip chip and PoP (package on package), particularly for lead free application. Using NC 256 can eliminate the cleaning process and is fully compatible with underfill. To avoid the contamination from underfill, YINCAE SMT 158HA is recommended with NC 256 together because SMT 158HA has zero outgassing. Using NC 256 and SMT 158HA together can eliminate cleaning completely. NC 256 can be used for the mass reflow process or rework process.

Typical Physical Properties

Product Name	NC 256 No Clean Flux
PROPERTIES OF UNCURED MATERIAL	
Appearance	Colorless or yellowish Liquid
Specific Gravity (ASTM D 1475-60)	0.9-1.1
Viscosity (Brookfield, 0.5 rpm)	3-10 k cp
Quantitative Halide Content	0%

Extractable ions (MIL-STD-883E)	
Na+	<5ppm
K+	<5ppm
F-	<5ppm
Cl-	<10ppm
Surface insulation resistance (J-STD-004)	Pass

Application

NC 256 can be dispensed, screen printed or stenciled onto the component footprint. Dipping is another alternative.

Reflow & Cure

NC 256 is completely comparable with the current SMT assembly process and all kinds of pad surface finishes such as Ni/Au, Immersion Ag, OSP. It can be used in convection, conduction, infrared, or vapor phase soldering systems under air or nitrogen atmosphere. The time from ambient temperature to peak temperature should be 4 to 5 min with a peak temperature from 230 °C to 260 °C.

Storage & Shelf Life

6 months provided materials are kept in a sealed original container at 0 °C or below. Storage beyond this period can produce higher viscosity. Protect from moisture, evaporation and foreign materials. Process ability of these products can be adversely affected by evaporation and contamination.



YINCAE Advanced Materials, LLC
93 Broadway
Menands, NY 12204
T (518) 452-2880
F (518) 452-2779

Safety

NC 256 is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detailed information, please consult the product SDS.

Package

NC 256 series dip adhesives are available in 5 cc syringe. Other packages are available depending upon customer's request. Contact YINCAE for order information.