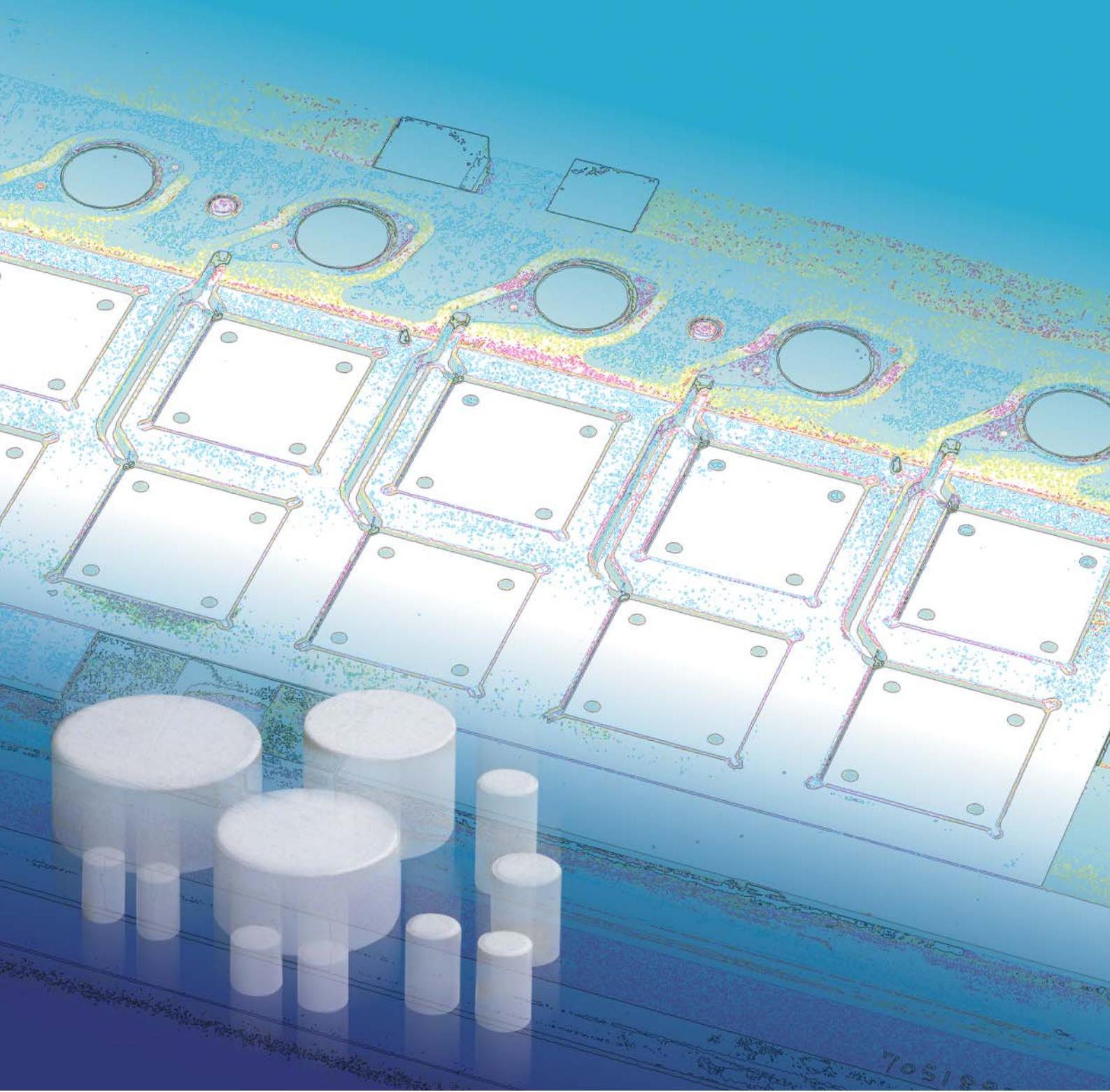


NIKALET ECR

MELAMINE BASED MOLD CLEANER



NIPPON CARBIDE INDUSTRIES CO.,INC.



DOU YEE ENTERPRISES (S) PTE LTD

Concerning NIKALET ECR

NIKALET ECR is a melamine based mold cleaner developed by Nippon Carbide Industries Co., Inc. specially designed for epoxy molding process.

By using NIKALET ECR, customer can remove the stain from the mold surface without detaching the mold tool.

Various type of epoxy molding compound have been developed by maker with changes in package for semiconductor, NIKALET ECR exhibits high cleaning ability for any kind of epoxy molding stain.

NIKALET ECR comes in two types, Transfer type Circular Cylinder tablets and Compression type Parallelepiped tablets. The compression type includes cleaning and a conditioning.

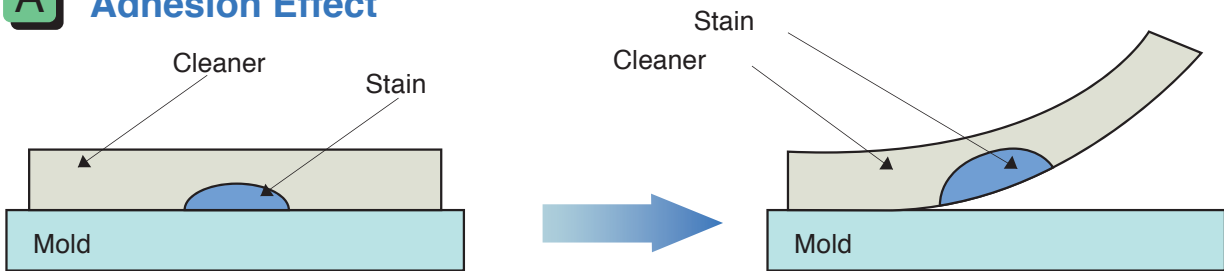
Cleaning Procedure



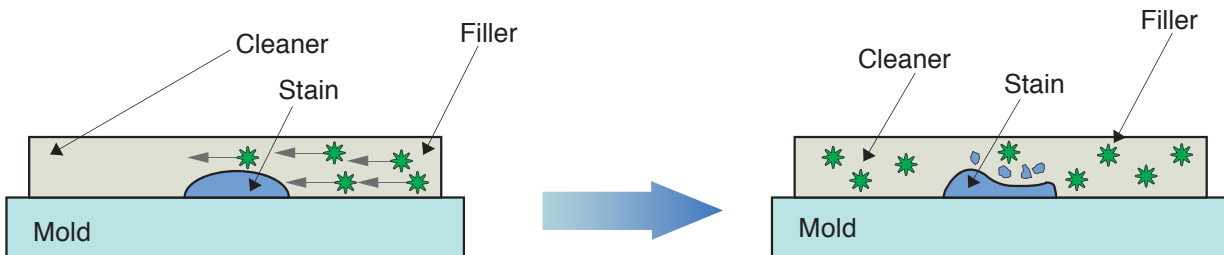
NIKALET ECR Cleaning Scheme

Nikalet ECR has the three cleaning effects shown here.

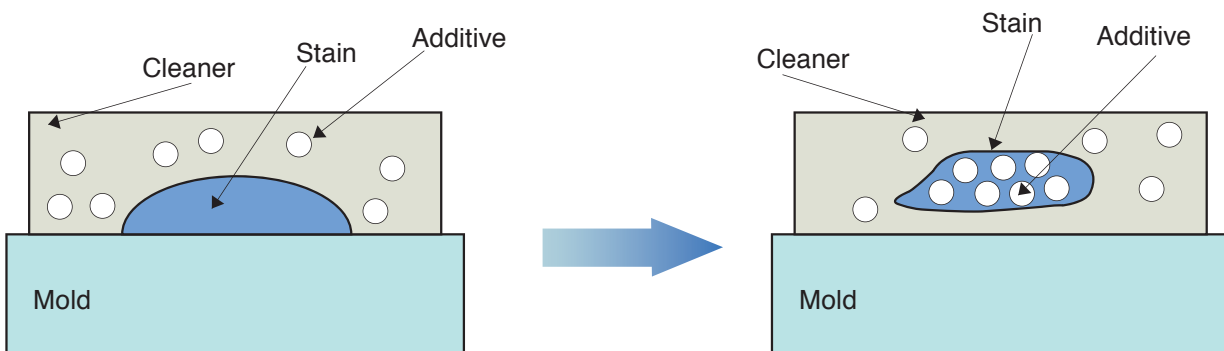
A Adhesion Effect



B Grinding Effect



C Penetrating Effect



NIKALET ECR-T (Transfer type)

ECR-T is Transfer type melamine based mold cleaner.

The optimum cleaning material can be select according to the epoxy molding compound specification, such as weight and specific quality .

And we can provide various size for cleaning based on epoxy molding compound.

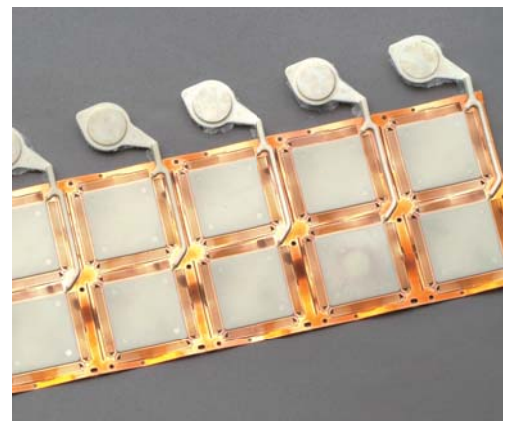


1. Property

Apperance	White ivory
Specific Density of Tablet	1.2g-1.5g/cm ³
Specific Gravity of tablet	1.5-1.7
Flow	48±18cm a)
Hardness after Curing	>70 b)
Application	Cleaned Plunger, Pot, Runner Gate, Cavity, Air-vent

a) Analyzed using EMMI Spiral flow molder (Mold temp., 170°C Molding pressure, 6.9MPa)

b) Analyzed using Shore-hardness Meter D (Mold temp., 170°C Molding pressure, 6.9Mpa)



2. Grades

Grade	CC	PF	CL	CP	GR
Property	STANDARD	Environmental	High cleaning ability	High cycle	For Green compound
Cure speed	STANDARD	STANDARD	SLOW	FAST	STANDARD
Size	For Conventional Type machine φ40mm-50..φ48mm-75g.55mm-90g				
	For Auto mold Type machine φ9.8mm.φ11mm.13mm.14mm.16mm.18mm.20mm				

Grade property

CC Grade : Standard type.

PF Grade : Environmentally-grade containing less than 1% of free phenol.

CL Grade : High performance grade of slow cure type having high fluidity and high cleaning ability.

CP Grade : High cycle grade of quick-curing type which can reduce cleaning time.

GR Grade : High function grade for green materials developed to solve the problem of mold contamination.

NIKALET ECR-C (Compression type)

NIKALET ECR-C is Compression type melamine based mold cleaner. Customer can clean without using leadflame substrate and clean parting areas including air-vent by using ECR-C.

Property

Apperance	White ivory
Specific Density of Tablet	1.0g-1.3g/cm ³
Specific Gravity of Tablet	1.4-1.6
Flow	80-100mm ^{a)}
Hardness after Curing	>70 ^{b)}
Application	Runner Gate, Cavity, Air-vent, Parting-area

a) Analyzed by JIS K6911 method

b) Analyzed using Shore-hardness Meter D (Mold temp., 170°C Molding pressure, 6.9Mpa)

SIZE : 73mm(L)×38mm(W)×7mm(H) Weight : 20g



NIKALET ECR-C KU (Conditioner)

NIKALET ECR-C KU is Compression type melamine based mold conditioner.



Property

Apperance	Light green
Specific Density of Tablet	1.0g-1.3g/cm ³
Specific Gravity of Tablet	1.4-1.6
Flow	90-100mm ^{a)}
Hardness after Curing	>70 ^{b)}
Application	Runner Gate, Cavity, Air-vent, Parting-area

a) Analyzed by JIS K6911 method

b) Analyzed using Shore-hardness Meter D (Mold temp., 170°C Molding pressure, 6.9Mpa)

SIZE : 73mm(L)×38mm(W)×7mm(H) Weight : 20g

Distributor :



DOU YEE ENTERPRISES (S) PTE LTD

2304 Bedok Reservoir Road, Bedok Industrial Park C, Singapore 479223
TEL: +65 6249 6188 | FAX: +65 6743 7172
s1_marketing@douyee.com.sg | www.douyee.com



ISO 9001:2008
登録番号 QC03J0200

We received this registration for manufacture, design and development.

 **NIPPON CARBIDE INDUSTRIES CO.,INC.**
Sales and Marketing Group, Molding Materials

11-19, 2chome Konan, Minato-Ku, Tokyo 108-8466
TEL: +81-3-5462-8208
FAX: +81-3-5462-8272

