

TECHNICAL DATA SHEET

MELAMINE MOLD-CLEANING COMPOUND

SEMICLEAN



Manufactured by :

Aquachem Corp.

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PRODUCT DESCRIPTION

SEMICLEAN series is a melamine resin polymer based cleaner developed by Aquachem Corp. Specially designed for Epoxy molding compound.

It is a global standard of the mold cleaning materials which continues being used throughout for more than 30years.

PROVIDING BENEFITS

Excellent cleanability : High adhesive strength melamine resin polymer system

Better moldability : Improved manufacturing productively through decreasing total cleaning time

COMPONENTS & INFORMATION ON INGREDIENTS



NO.	Chemical Name	CAS No.	Contents (%)
1	Melamine-Resin polymer	9003-08-1	70>
2	Cellulose powder	9004-34-6	10>
3	Silica powder	7631-86-9	20>
4	Wax agents	557-05-1	1>
5	Curing agents	85-44-9	1>

FUNCTIONS

SEMICLEAN is mold cleaner material of melamine resin polymer system and is best suited for use in the cleaning of mold stains which occur during the molding of epoxy molding compound for encapsulation of semiconductors such as IC packing.

SEMICLEAN can be transfer molded under the same molding conditions for EMC(epoxy molding compound) Physical cleaning of stained mold can be done very efficiently and completely only in a few times of molding.

BASIC INFORMATION

Type	TRANSFER TYPE	COMPRESSION TYPE
Molding Method	Transfer molding	Compression molding
Curing Time	Fast Cure	Fast Cure
Cleanability	Excellent	Excellent
Moldability	Good	Good
Tablet Size	Big Tablet : $\phi 40, \phi 48, \phi 55\text{mm}$ Mini Tablet : $\phi 13, \phi 14, \phi 15, \phi 16, \phi 18, \phi 20\text{mm}$	38mmX68mm 50mmX50mm 150mmX40mm
Appearance		

PHYSICAL PROPERTIES

TYPE	Transfer grade melamine	Compression grade melamine
TABLET FORM	Big & Mini tablet size	Rectangle & Square tablet size
APPERANCE	White	White
SPRIAL FLOW(EMMI mold)	20 ~ 40inch	N/A
GEL TIME	30 ~ 50sec	N/A
FLUIDITY(Disc flow)	N/A	80 ~ 110mm
SPECIFIC GRAVITY	1.5 ~ 1.7g/cm ³	1.3 ~ 1.5g/cm ³
TABLET DENISTY	1.2 ~ 1.5g/cm ³	1.1 ~ 1.3g/cm ³
MOLDED SHRINKAGE FACTOR	0.7 ~ 1.2%	0.9 ~ 1.2%
HOT HARDNESS(Shore D)	More than 70	
STORAGE	(At or below) 25°C	
PACKING	SEMICLEAN series is packed by 10Kg in a carton and together with silica gel in a polyethylene bag inside.	
SHELF LIFE	12 months after manufacturing date External factors may influence in the date described	

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