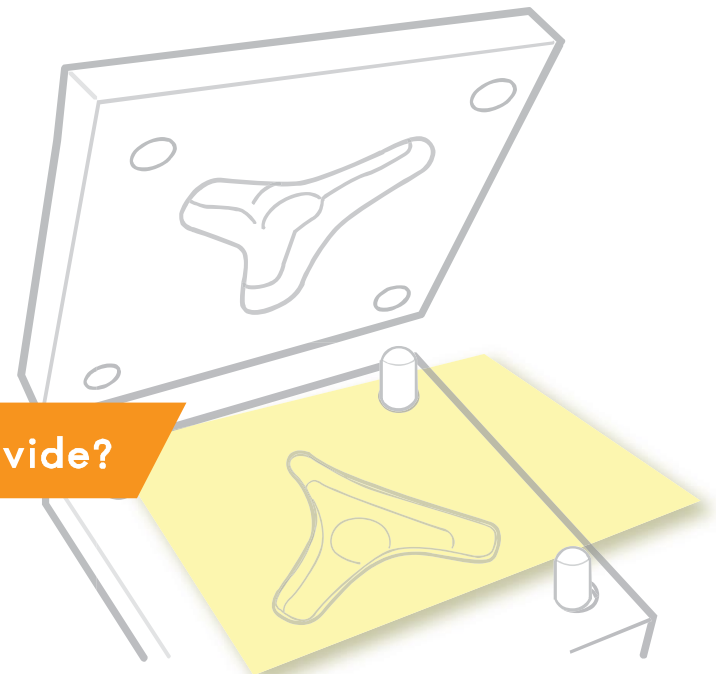


## What is MOKLEAN

MOKLEAN is rubber-mold cleaning compound, developed by a Thai chemical expert team. MOKLEAN has been created to provide value-added benefits to the rubber industry.

For more than 20 year, our R&D team, developing thousands of rubber fomulas, has had experiences with tens of raw-material rubbers and been challenged by countless mold-related problems. Now, collaborating with professors and rubber specialists from government sector, we have successfully invented the latest mold cleaning innovation MOKLEAN

we have successfully invented the latest mold cleaning innovation, MoKlean.



### What benefits does MOKLEAN provide?

Besides the increase in effectiveness and ease of use, the total cost of mold cleaning with MoKlean is found to be less than with other mold cleaning methods.

Cost reduction

Flawless molds that have been cleansed with MoKlean can greatly reduce defects, thus significantly boosting productivity.

Productivity Boost

When fluidized by heat, MoKlean's exceptional flow properties allow it to penetrate all angles and crevices of even the most complex mold, completely extracting and removing all unwanted chemical stains from the mold surface.

Cleaner

Though offering powerful cleaning performance, MoKlean is very gentle to the mold surface. The chemicals in MoKlean have been carefully selected to minimize mold attrition and maximize the lifespan of the tooling.

Long Mold Lifespan

MoKlean was developed to provide industry with a new cleaning method combining convenient use with less time consumption.

Faster

Produced from high-quality raw materials, MoKlean is harmless to both humans and the environment.

Safer

MoKlean cuts out all time-consuming cleaning processes, such as removing tooling from the machine, hand-polishing and reheating the mold after cleaning.

Easier

Using MoKlean is as easy as the regular molding process. Simply place MoKlean onto the mold and then set the temperature and time. In a few minutes, the mold will be completely cleansed, just like new!



## How to Use MOKLEAN

Instruction on MoKlean : MC002 usage.

1. set up the time in relation to the recommended temperature.

TEMP (°C)	TIME (Min)
160	6
165	4.5
170	3
180	1.5

2. Prepare the MOKLEAN by weight as following.

$$\frac{\text{existing compound weight} \times 1.07}{\text{existing compound SG}}$$

3. Properly place the MOKLEAN on the mold.

4. Follow the normal molding process.



## What advantages does MoKlean offer?

Comparision of Mold Cleaning Methods after One Time Cleaning.

Item	Mold Cleaning Method			
	Hand Polish	Chemical Wash	Sand Blasting	MoKlean : MC 002
Cleaning result	Unable to get rid of all dirt in the corners of the tooling	Good result, but requires additional hand polish	The tooling is still dirty, especially in the corners of the tooling	Surface and corners of the tooling are completely cleansed
Cleaning time	5 hours	13 hours	4 hours	20 minutes - 1 hours
Machine utilization loss per day	20.10 %	53.50 %	16 %	4.2 % (lowest)
Effects on health	None	Eye and skin allergy from concentrated acid and alkali	None	None
Tooling Life Loss	1 %	1%	5 %	0 - 0.5 %
Necessary skills and knowledge	1. Chemical usage 2. Tooling and iron material 3. Chemical properties of rubber	1. Chemical usage 2. Tooling and iron material	Tooling and iron material	None
* Proportion of expenses per time	100 %	287.8 %	392.7 %	152.6 %

\* In addition to operating cost, there will be a business opportunity cost which is of high value, but difficult to estimate.

Not for use with CR rubber and acid compounds

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