

# Product Data

## Rubber-based Silicone Release Agent YSR3022

YSR3022 is a solvent type silicone release agent, which cures to an elastic film with the addition of curing agent and adhesion promoter.

### KEY FEATURES

- ◆ Cures quickly with heat
- ◆ Excellent film formation
- ◆ Good durability
- ◆ No migration

### TYPICAL APPLICATIONS

Release agent and lubricant for rubber, textile, plastic film, paper, etc

### TYPICAL PROPERTY DATA

PROPERTIES	YSR3022	YC6831	YC6843	XC9603	YC6919
Appearance	Colorless transparent	Light yellow transparent	Light yellow transparent	Light yellow transparent	Yellow transparent
Viscosity (25°C) Pa·s	15	-	-	-	-
Specific gravity (25°C)	0.90	0.99	1.07	0.83	0.82
Effective content %	30	37.5	62.5	30	20
Solid content %	30 (150°C, 1h)	27 (105°C, 3h)	35 (105°C, 3h)	14 (105°C, 2h)	8 (150°C, 1h)
Solvent	Toluene, MEK	Toluene	Toluene	IPA	IPA
Remarks	Base	Catalyst		Adhesion promoter	

*Typical property data values should not be used as specifications.*

### INSTRUCTIONS FOR USE

1. Selection of catalyst and adhesion promoter

Additive	Weight parts*	Remarks	
Catalyst	YC6831	4	Quick cure general type
	YC6843	4	Slow cure, good solution stability and good adhesion
Adhesion promoter	XC9603	30-100	For rubbers and metals
	YC6919	2	For textiles and papers

\*Per 100 weight parts of YSR3022

## 2. PREPARATION OF COATING SOLUTION

YSR3022 should be diluted to required solid content (3-7 wt%, in general) using appropriate diluent such as toluene, xylene or mineral spirits, and dissolve it sufficiently. Mix the diluted product evenly after adding a curing agent and an adhesion promoter.

## 3. COATING

The coating solution can be applied by roll coating or spray coating.

## 4. CURING

After air-drying, cured film is formed by heating for a short time or for 6 to 7 hours at room temperature.

### TYPICAL CURING CONDITION

Substrates	Curing agent*	Adhesion promoter*	Curing condition
Textiles	YC6831 - 4parts	YC6919 - 2parts	150°C, 1min
	YC6843 - 4parts	-	150°C, 1min
Rubbers	YC6831 - 4parts	XC9603 - 30~100parts	120°C, 1min
Metals	YC6831 - 4parts	XC9603 - 30~100parts	180°C, 30s

\*Per 100 weight parts of YSR3022

## NOTICE

The pot lives of the following formulation examples are about 8 hours. Use up the solution on the same day.

Formulation-1	<u>parts by weight</u>
YSR3022	100
Toluene	494
YC6831	4
YC6919	2

Formulation-2	<u>parts by weight</u>
YSR3022	100
Toluene	446
YC6831	4
XC9603	50

## HANDLING AND SAFETY

- ◆ Wear eye and hand protection, and if necessary, respiratory protection when in handling.
- ◆ YSR3022 generates hydrogen gas, which is highly reactive in the air to make risk of explosion, on contact with acids, bases or oxidizing materials.

- ◆ Maintain adequate ventilation in the work place at all times.
- ◆ Avoid any source of ignition due to flammability.

## STORAGE

- ◆ Store in a cool and dry place out of direct sunlight.
- ◆ Keep out of the reach of children.

## PACKAGING

### YSR3022

- ◆ 500g bottle available in cases of 10
- ◆ 17kg pail available
- ◆ 180kg drum available

### YC6831

- ◆ 1kg can available in cases of 10
- ◆ 12kg drum available

### YC6843

- ◆ 500g bottle available in cases of 10

### XC9603

- ◆ 500g bottle available in cases of 10
- ◆ 14kg drum available

### YC6919

- ◆ 500g bottle available in cases of 10

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### **FOR INDUSTRIAL USE ONLY**

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**Momentive Performance Materials Japan LLC**

<http://www.momentive.com>

Technical Answer Center (Japan): Phone: +81-276-20-6182 FAX: +81-276-31-6259  
Tokyo Head Office: Phone: +81-3-5544-3111 FAX: +81-3-5544-3122