Platinum Catalyst Gel Curing System

REVISION: 01 | DATE: 23-SEP-2025

Overview

WICSilicone PCSWIC is a two-component **platinum-based gel curing system** specifically formulated for the vulcanization of high-temperature silicone rubber (HTV).

This system consists of two parts — **YA/220/WIC and YB/220/WIC** — which must be used simultaneously under low-temperature conditions and a short curing cycle to achieve optimal performance.

Batch-tested | ISO 9001

ASTM / ISO Verified

RoHS / REACH Compliant

Fully traceable | ISO 10993-4

ISO 10993-10 | ISO 10993-5

Usage Instructions

The recommended concentration of each component and the curing conditions depend on the specific type of HTV silicone being used. These parameters are provided in the table below:

Concentration in mixing					
Process	**HTV based**	**A (Wt.%)**	**B (Wt.%)**	**Temperature (˚C) ***	**Time (min)***
Compression Molding	PPT	0.8	1.5	100-150	4 <
	Fumed	0.8	1.5	100-150	4 <
Extrusion	PPT	1.5	1	200-300	5 <
	Fumed	1	1.5	200-400	5 <

Note: The measure of temperature and time are depended on product's thickness.

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Features & Benefits

Non-Toxic & Odorless Clarity

Non-toxic, odorless, and transparent material with high optical clarity for visually critical components.

Platinum-Catalyzed Gel System

Platinum-cured gel designed for medical, pharmaceutical, and food-grade applications requiring purity and consistency.

Fast & Clean Curing

Accelerated curing performance with no surface residue or blooming, ensuring clean and consistent finished parts.

Safe & Reproducible Performance

Safe to handle, non-flammable, non-explosive, and engineered for high batch-to-batch reproducibility.

Post-Cure Stability

Retains mechanical performance, flexibility, and durability throughout long-term use.

Multi-Process Compatibility

Suitable for extrusion, compression molding, and calendaring processes.

Compliance & Certifications

- **ISO 9001:** Quality Management
- **ISO 10993-4:** Tests for blood-material interactions.
- **ISO 10993-10:** Evaluation for skin irritation and sensitization.
- **ISO 10993-5:** In vitro cytotoxicity testing for medical devices.
- Batch-tested for strength & durability
- Fully traceable batch documentation
- ASTM / ISO standards verified
- **RoHS / REACH compliant**

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Typical Applications

Medical Devices

Transparent tubing, implantable parts, and soft-touch medical components requiring purity and flexibility.

Pharmaceutical Packaging

Vials, seals, stoppers, and flexible closures designed for clean, non-reactive pharmaceutical environments.

Food-Grade Components

Food-contact–safe tubing, gaskets, and soft-touch handles for hygienic processing and handling.

Electronics & Wearables

Flexible insulation, protective housings, and cushioning parts for sensitive electronic assemblies.

Industrial Precision Parts

Precision-molded gaskets, seals, and low-stress components requiring dimensional consistency.

Specialty Molded Elastomer Parts

Custom-designed transparent gel components for specialized technical and regulated applications.

Processing & Handling

- Mix components at recommended ratios; ensure uniformity before molding
- Compatible with extrusion, compression molding, and calendaring
- Use clean, dry tools and molds; avoid moisture, dust, or oils
- Control temperature and vent properly for consistent curing and properties

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Packaging & Storage

- Supplied in cartridges, pails, or bulk containers (1–20 kg MOQ)
- Store sealed in a cool, dry area below 25°C, away from sunlight and moisture
- Shelf life: 6–12 months depending on storage conditions
- Safe for transport (non-flammable, non-explosive); handle per standard chemical procedures

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