

Curalyst™

Platinum Cure Technology

Enabling Efficient, Sustainable
Silicone Processing



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Curalyst™

Platinum Cure Technology

is an advanced platinum cure technology platform designed to enable selected silicone elastomers to cure effectively at reduced processing temperatures.

By combining platinum catalyst technology with proven silicone formulations, Curalyst™ creates opportunities to **reduce thermal energy demand, improve processing efficiency, and maintain consistent elastomer quality and performance.**

The technology is designed to support manufacturers in optimizing the complete processing system — from material formulation and cure conditions to component geometry, equipment, and application requirements.



Key Benefits

Lower Thermal Demand

Enables opportunities for lower-temperature silicone processing.

Processing Flexibility

Supports optimization of manufacturing conditions and production workflows.

Consistent Quality

Supports controlled and repeatable cure performance.

Sustainability Opportunities

Helps manufacturers explore more energy-efficient processing strategies.

Application Performance

Supports the demanding performance requirements of selected silicone elastomer applications.

Curalyst™ connects three key areas of manufacturing value:

Energy Efficiency

Lower-temperature processing can create opportunities to reduce thermal energy requirements and support manufacturing sustainability objectives.

Manufacturing Efficiency

Greater processing flexibility can help manufacturers evaluate optimized production conditions, equipment utilization, cycle strategies, and process consistency.

Elastomer Quality

Controlled cure response supports consistent material properties, dimensional repeatability, surface quality, and component performance.

The actual benefit depends on material grade, equipment, processing conditions, component geometry, production environment, and application requirements.

One Technology Platform. Multiple Application Pathways.

Curalyst™ is integrated into selected silicone elastomer platforms serving demanding applications across energy, transportation, new energy vehicles, and healthcare.

Electropren™ Technology Series

High-Voltage Energy Applications

Electropren™ technology is designed for demanding electrical and high-voltage environments where silicone elastomers require reliable performance, environmental resistance, and consistent processing.

Application areas include:

- High-voltage electrical systems
- Energy infrastructure
- Electrical insulation
- Other demanding energy applications
- Power transmission and distribution

Curalyst™ provides opportunities to optimize processing conditions while supporting the material performance requirements of high-voltage silicone components.

NEVSil™ Technology Series

Transportation & New Energy Vehicles

NEVSil™ technology addresses the evolving material requirements of transportation and new energy vehicle applications, where silicone elastomers may need to combine durability, thermal stability, electrical performance, environmental resistance, and manufacturing efficiency.

Application areas include:

- | New energy vehicles
- | Electric vehicle systems
- | Power electronics
- | Battery environments
- | Charging and electrical systems
- | Transportation applications

Curalyst™ supports processing optimization for silicone components used in the rapidly evolving mobility and electrification landscape.



Silopren™ LSR 22x0 Series

Consumer and Everyday applications

Silopren™ LSR 22x0 Series silicone elastomers support consumer applications requiring efficient processing, consistent quality, flexibility, and durability across a range of molded components.

Application areas include:

- Consumer goods and household products
- Wearable devices
- Molded silicone components for everyday consumer products
- Personal care and lifestyle products
- Soft-touch and tactile components
- Kitchen and food-contact-related components, where applicable
- Other demanding consumer applications
- Seals, gaskets, and flexible components

Curalyst™ provides opportunities to optimize processing conditions for selected **Silopren™ LSR 22x0 Series** grades, supporting efficient manufacturing while maintaining the material and application requirements of consumer silicone components.



Silopren™ LSR 42x0 Series

Healthcare Applications

Silopren™ LSR 42x0 Series is a silicone elastomer technology for healthcare applications where material consistency, quality, and controlled manufacturing are important.

Application areas include:

- | Healthcare components
- | Silicone molded components
- | Patient-contact applications, where applicable
- | Medical applications
- | Demanding healthcare manufacturing environments

Curalyst™ enables opportunities to optimize processing while maintaining the material and application requirements of healthcare silicone components.



Application-Specific Validation

Turning Technology Potential into Measurable Value

The performance and manufacturing benefits of **Curalyst™** are dependent on the specific material, process, equipment, component, and application.

Application-specific validation can be used to establish:

- » Processing temperature and cure window
- » Cure behavior and consistency
- » Cycle time and production performance
- » Energy consumption
- » Material properties
- » Component quality and dimensional consistency
- » Equipment and tooling requirements
- » Application-specific performance

This validation approach helps manufacturers determine the appropriate processing conditions and quantify the benefits relevant to their production environment.

Curalyst™ Technology Framework

Technology Focus	Manufacturing Opportunity
Lower-Temperature Cure	Explore reduced thermal processing requirements
Processing Flexibility	Optimize manufacturing conditions and production workflows
Cure Consistency	Support repeatable component quality
Energy Efficiency	Create opportunities for reduced process energy consumption
Application Performance	Maintain the requirements of demanding silicone applications

Curalyst™

Enabling More Efficient Silicone Manufacturing

Curalyst™ brings together **platinum cure technology, processing flexibility, energy-efficiency opportunities, and consistent silicone elastomer performance.**

Integrated into selected silicone platforms, Curalyst™ helps manufacturers explore optimized processing strategies across diverse applications — from **high-voltage energy and electrification to transportation, new energy vehicles, and healthcare.**

Lower Thermal Demand. Greater Processing Flexibility. Consistent Performance.

Product availability, formulation, processing conditions, and performance characteristics are grade- and application-specific. Sustainability, energy, productivity, and other benefits should be validated under relevant application and production conditions.



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