



Overview

WICSilicone Liquid Silicone Rubber

(LSR) delivers exceptional precision and performance, ideal for intricate molding and high-volume production. This two-part, platinum-cured elastomer cures rapidly and uniformly, offering excellent **dimensional stability**, **flexibility**, and **resistance to extreme temperatures**. LSR is particularly suited for high-precision applications in **medical devices**,

Batch-tested

ISO 9001

ASTM / ISO Verified

RoHS / REACH Compliant

Fully traceable

ISO 10993-4

ISO 10993-10

ISO 10993-5

Property	LSWIC-1060 A/B	Test Method
Hardness (Shore A)	60	DIN 53 505
Tensile Strength (MPa)	6.5	DIN 53 504
Elongation at Break	376%	ASTM-D 624 die B
Tear Strength (N/mm)	25	DIN 53 504
Test Condition C°/min	130°C, 1 min	
Selica Based		
Curing Agent		
Viscosity	20,000 - 200,000 cP (depending on formulation)	
Rebound Resilience (%)	40	DIN 53 512
Specific Gravity (cm ³)	1/24	
Compression set	2.5%	DIN 53 517
Temperature Range	-50°C to +250°C	
Appearance	Transparent	



Features & Benefits

High-Precision LSR Material

Medical-grade liquid silicone rubber designed for high-precision molding in medical, food-contact, and industrial applications.

Biocompatible & Safe

Fully biocompatible, non-toxic, and compliant with FDA and ISO 10993 requirements.

Fast Curing Performance

Rapid curing behavior supports high-volume production with short cycle times.

Low Shrinkage & Dimensional Stability

Minimal shrinkage and excellent dimensional consistency for tight-tolerance medical components.

Thermal & Environmental Resistance

Performs reliably from -50°C to +200°C with resistance to UV exposure, chemicals, and aging.

Custom Hardness & Colors

Available in customized hardness levels and color options for functional and visual product differentiation.

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**



Typical Applications

Medical Devices

Precision-molded tubing, seals, valves, and implantable components requiring biocompatibility and accuracy.

Implantable & Patient-Contact Parts

Soft, durable components for long-term or repeated patient contact in regulated medical environments.

Electronics & Electrical

Keypads, connectors, gaskets, and insulation parts with excellent sealing and environmental resistance.

Automotive Precision Seals

High-accuracy gaskets, O-rings, and seals for demanding automotive and mobility applications.

Baby & Infant Products

Safe, food-contact-approved parts for baby care products requiring softness and purity.

Wearables & Smart Devices

Soft-touch, durable housings and seals for wearable electronics and smart consumer products.

Processing & Handling

- Suitable for injection molding and automated dispensing systems
- Two-part platinum-cured system ensures rapid, uniform curing
- Excellent flow, dimensional stability, and release properties for intricate parts
- Compatible with standard LSR processing equipment; optimize curing per part design and thickness
- Mix two-part liquid system at recommended ratio
- Injection mold at 160–200°C; ensure clean, dry molds
- Use accurate metering and mixing for dimensional consistency
- Design vents/runners to avoid air entrapment



Packaging & Storage

- Supplied in 1 kg, 5 kg, and 20 kg kits (two-part system)
- Shelf life: 12 months in unopened containers
- Store in a cool, dry place, protected from heat, sunlight, and contamination
- Avoid contact between parts until mixing; maintain hygienic handling for medical-grade applications
- Keep containers closed to prevent contamination or premature curing

The information contained herein is believed to be accurate. Users should verify the suitability of the product for their application. Wire Iran is not responsible for improper use.