

Fluoro Silicone Rubber LIMS Materials

LIMS (Liquid Silicone Rubber Injection Molding Systems) manufactures fluorosilicone rubber parts with excellent oil and solvent resistance. Cost reductions can be expected by shortening the process and improving productivity.

Features

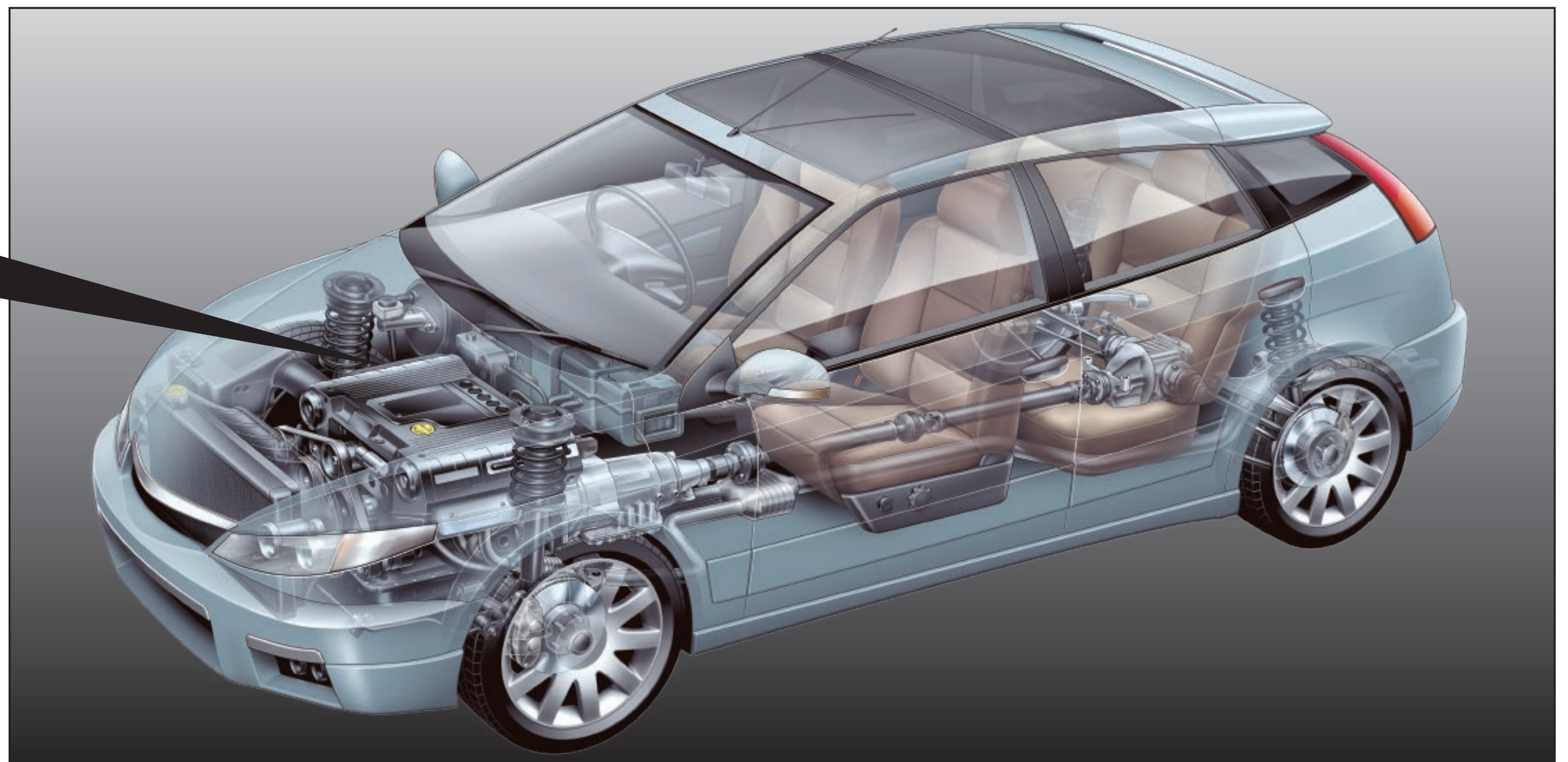
- The two-part material can be automated from mixing to molding by simply setting it in a molding machine.
- The molded article is excellent in terms of heat resistance, cold resistance, and solvent resistance, and maintains rubber elasticity even at low temperatures.
- Physical properties are equivalent to those of millable type fluorosilicone rubber.

Application Examples

- Rubber parts that require oil resistance and solvent resistance
- Rubber parts that are exposed to severe temperature ranges from -40°C to 200°C .
(e.g.) Transporter diaphragms, check valves, connectors, O-rings, intake manifold gaskets, etc.



Applicable to in-vehicle rubber parts such as drive trains and around engines that require oil and solvent resistance



General properties

Parameter	Product name		X-34-4370-A/B	Newly developed product	FE-251-U
Viscosity	Pa·s	(0.9s-1 Shear)	A:2,740 B:3,600		—
		(10s-1 Shear)	A:880 B:760		—
Vulcanization agent			—		C-8A/0.8
Curing conditions			150°C×10min+200°C×4h		165°C×10min+200°C×4h
Density	g/cm ³		1.44		1.41
Hardness	Durometer A		50		52
Tensile strength	MPa		7.9		9.5
Elongation at break	%		330		430
Tear strength crescent	kN/m		10		15
Compression set	180°C × 22h	%	7		7
Compression set	180°C × 70h	%	24		—
Heat resistance 225°C × 168h	Hardness	change point	+1		-5
	Tensile strength	change rate %	-52		-57
	Elongation at break	change rate %	-29		-25
Fuel C	23°C × 70h	Volume change	change rate %	+21	+22

(Not specified values)