



DGE 2016



Authorized Distributor



High performance specialty
lubricants from Dow Corning

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SELECTION GUIDE FOR RAILWAY INDUSTRY



Distributors Group Europe (DGE) was established in 1996 by several European based specialty chemical distributors. Twenty years later we have grown to form a single European-wide distribution network of locally owned distributors that is focused on commercial technical support and application development for value added specialty lubricants, anti-friction coatings, compounds, pastes, silicone adhesives and sealants as well as electronics product protection solutions. DGE is based in the Netherlands and the market we serve is Europe.





Dow Corning

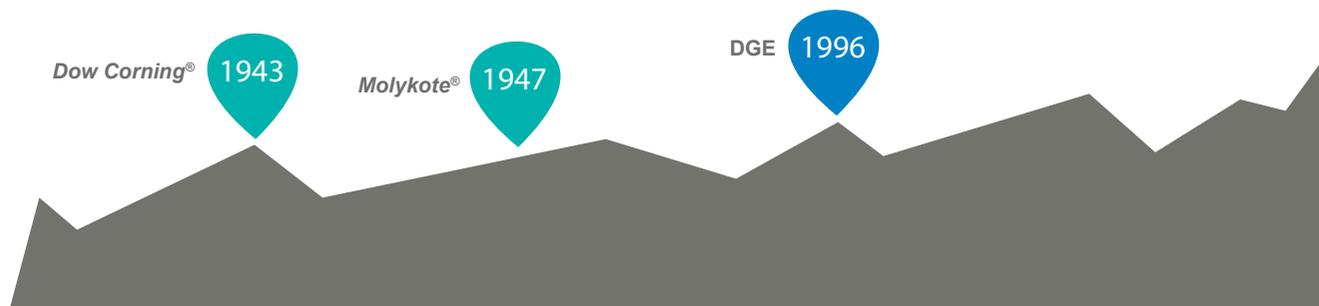
Dow Corning is a global leader in silicones, silicon-based technology and innovation.

Through Dow Corning® and XIAMETER® brands, they provide more than 7,000 products and solutions to meet the needs of customers.

Dow Corning is a wholly owned subsidiary of The Dow Chemical Company.

Molykote®

With Molykote® Dow Corning offers an extensive line of high-performance specialty lubricants giving you options to meet your lubrication needs for load, environment, temperature and speed.



Molykote® high-performance lubricants

Molykote's Smart Lubrication Solutions help reduce friction and wear, extend lubrication interval and reduce maintenance and replacement costs in applications that would defeat conventional oils and greases. Formulated to withstand the rigors of heavy loads, chemically harsh environments and a wide variety of loads and speeds.

Specialty Greases

Solid to semisolid materials consisting of a lubricating fluid, thickening agent and additives. Used on rolling element bearings and other moving parts. Severe-duty greases are blended for heavy load lubrication, reliable equipment operation and reduced maintenance needs.

Anti-Friction Coatings

Molykote® Anti-Friction Coatings typically contain MoS₂ (molybdenumdisulfide), graphite or PTFE lubricating solids. Depending on your lubrication need, precise formulations can be engineered with these or other lubricating solids to provide customized options that meet your exact requirements. "Lubricating paints" when applied, these materials cure to form dry solid lubricant coatings that are bonded to the surface and provide superior lubrication in harsh operating conditions and environmental extremes. Lifetime lubrication without aging, evaporation or oxidation.

Compounds

Grease-like materials composed of silicone fluids and silica fillers. Used for their sealing, dielectric, non metal-to-metal lubricating and release properties.

Anti-Seize Pastes

Grease-like materials containing a very high percentage of solid lubricants. Used for assembly and lubrication of highly loaded, slow moving parts or threaded fasteners.

Dispersions

Finely divided solid lubricants suspended in lubricating fluids; preferred when it is necessary to apply solid lubricants in liquid form.

High Performance Lubricating Oils

Based on hydroprocessed mineral oils or synthetic base stocks such as polyalphaolefin (PAO) and esters, these lubricating fluids are fortified with carefully selected additives to provide optimum performance and service life while maximizing protection of the equipment and machinery they are designed to lubricate.



① Train Structure

Lubrication

Applications

- Linear guides and drive spindles - doors
- Hydraulic braking system
- Door piston O-rings
- Door closing mechanism
- Pantograph hinges
- Assembly and threaded screw connections
- Coupler assemblies/ mechanisms
- Hinges and highly loaded slides

Our Solutions

Molykote[®] EM 50 L Grease
Molykote[®] 55 O-Ring Compound
Molykote[®] FS 3452 Silicone Grease
Molykote[®] PG 54 Silicone Grease
Molykote[®] 7409 Anti-Friction Coating
Molykote[®] P-40 Anti-Seize Paste
Molykote[®] 3400A Anti-Friction Coating
Molykote[®] Polygliss Dispersion
Molykote[®] 3402 C Anti-Friction Coating
Molykote[®] Multilub Grease
Molykote[®] D321-R Anti-friction coating

Adhesion

Applications

- Sealing glass to side-windows frame
- Bonding glass to trams side-windows frame
- Bonding painted steel panels to painted surfaces

Our Solutions

Dow Corning[®] 7091 Neutral Cure Silicone
Dow Corning[®] 734 Flowable Silicone Adhesive



② Bogie Traction System

Lubrication

Applications

- Block and disc brake assembly
- Brake cylinders
- Brake linkage, shoes and mechanisms
- Press fitting of wheelsets on axles
- Press bearing assembly wheelsets
- Brake pads & linings production
- Brake caliper lubrication
- Rack spring in cog railways
- Gear lubrication
- O-rings wheel connection subway trains

Our Solutions

Molykote[®] D-321R Anti-Friction Coating
Molykote[®] 3400A Anti-Friction Coating
Molykote[®] Longterm 00 Grease
Molykote[®] 55 O-Ring Grease
Molykote[®] PG 54 Silicone Grease
Molykote[®] Gn-Plus Anti-Seize Paste
Molykote[®] G Rapid Anti-Seize Paste
Molykote[®] Lubolid 7365 Additive Powder
Molykote[®] Lubolid D78 Additive
Molykote[®] BR2 Plus Grease
Molykote[®] BG 20 Grease
Molykote[®] 33 Medium Silicone Grease
Molykote[®] 111 Compound
Molykote[®] 44M Grease



③ Interiors, Cable and Climate Systems

Adhesion

Applications

- Sealing bellows frame between wagons
- Sealing panels and walls
- Interior fabric to wood
- Sealing and bonding of floor and shelves
- Bonding ceiling signals reinforcements
- Cable entry and holes filling
- Power supply PCBs protection
- Train toilets modules sealing and bonding
- Sealing and bonding of air duct collars

Our Solutions

Dow Corning® 3525 MoistureCuring Sealant
Dow Corning® 7091 Neutral Cure Silicone
Dow Corning® AS7096 Neutral Cure Sealant
Dow Corning®
Firestop 700 Silicone Rubber Sealant
Dow Corning® 3-6548 Silicone RTV Foam
Dow Corning® 752 General Purpose

Electronics

Applications

- Connector protection
- Potting in train signalling
- Thermal management
- Electrical switches
- Optical and lighting equipment
- Potting power supplies & electrical components

Lubrication

Applications

- Internal doors plastic gear mechanism
- Dryer valves spool lubrication
- Mounting screws interior panels and air conditioning units
- O-rings and on water taps in train toilets

Our Solutions

Molykote® PG 21 Silicone Grease
Molykote® PG-75 Grease
Molykote® 55 O-Ring Compound
Molykote® PG 54 Silicone Grease
Molykote® D Paste Anti-Seize paste
Molykote® 111 Compound
Molykote® G-2003 High performance grease

Our Solutions

Dow Corning® 3140 Silicone Coating
Dow Corning® 3-4207 Dielectric Tough Gel
Dow Corning® TC-5622 Thermally Conductive
Dow Corning® 4 Electrical Insulating
Dow Corning® 3145 Clear Non-flowing Adh.
Dow Corning Sylgard® 170 Silicone Encapsulant
Dow Corning® EE-3200 Low Stress Encapsulant

④ Rail Infrastructure

Lubrication

Applications

- Exchange joints and junctions
- Track joints screws and mechanism
- Signalling systems
- Transformer fluid

Our Solutions

Molykote® EM 50 L Grease
Molykote® 3400 A Anti-Friction Coating
Xiameter® 561 Transformer Fluid

Adhesion

Applications

- Exchange control cabin doors
- LED signals protection
- LED panels protection and frame bonding

Our Solutions

Dow Corning® 1-2577 Conformal Coating
Dow Corning® 7091 Neutral Cure Silicone



Molykote® Product Range Lubricants

You can count on Molykote® brand specialty lubricants from Dow Corning® to help get the job done right in industrial assembly and maintenance lubrication. These Smart Lubrication solutions can help control friction and wear to save energy, extend lubrication intervals to reduce maintenance, and enhance equipment reliability to maintain productivity.



* Load carrying capacity, Falex test ASTM-D-2625

** Weld load, Four ball machine test, DIN 51350

In the following tables please find a small selection of our proven solutions.

Product Name	Temperature	Loads
<i>Molykote</i> ® Lubolid 7365	max 650°C	•
<i>Molykote</i> ® Lubolid D-78	max 650°C	•
<i>Molykote</i> ® Microsize	-185°C to +450°C	•
<i>Molykote</i> ® D-321R	-180°C to +450°C	15.000 N*
<i>Molykote</i> ® D-7409	-70°C to +300°C	15.800 N*
<i>Molykote</i> ® D-10-GBL	-40°C to +340°C	5.500 N*
<i>Molykote</i> ® 3402-C-LF	-200°C to +310°C	15.500 N*
<i>Molykote</i> ® 3400 A LF	-200°C to +430°C	20.000 N*
<i>Molykote</i> ® D-708	-180°C to +240°C	1.220 N*
<i>Molykote</i> ® D-7405	-70°C to +200°C	15.000 N*
<i>Molykote</i> ® 111	-40°C to +200°C	•
<i>Molykote</i> ® M55 Plus	•	•
<i>Molykote</i> ® Multigliss	•	1.200 N**

Speeds(DN)	Features	Properties
ADDITIVES		
•	Inorganic Solids • Grey • Density 3.3	Reduces wear, fading and vibration • Improves friction recovery and comfort • Prevents DTV
•	Inorganic Solids • Grey • Density 3.2	Reduces wear, fading and vibration • Improves friction recovery and comfort • Prevents DTV • High speeds
•	MoS2 powder • Black • Density 4.8	Reduces friction and wear • Excellent adhesion to metal surfaces • Resistant to extreme pressure
ANTI-FRICTION COATINGS		
•	Inorganic binder • MoS2 • Solvent • Grey • Cured: 5 min at 20°C • Available as aerosol	High load • Rapid cure • Good protection against wear • High temperature
•	Organic binder • MoS2 • Solvent • Grey-Black • Cured: 30 min at 220°C	High load • Chemical resistant • Good protection against wear and corrosion
•	Organic binder • Graphite • Solvent • High viscosity • Grey-Black • Cured: 20 min at 200°C	Chemical resistant • Long-term protection against wear • Suitable for screen-printing
•	Organic binder • MoS2 • Solvent • Grey-Black • Cured: 120 min at 20°C	Excellent corrosion protection • Air dry • Good protection against wear • High pressure
•	Organic binder • MoS2 • Solvent • Grey • Cured: 30 min at 200°C	High load • Excellent lubrication and corrosion protection • Chemical resistant • Good protection against wear • Excellent adhesion to metal
•	Organic binder • PTFE • Solvent • Black • Cured: 20 min at 200°C	Low friction • Glossy black appearance • Excellent corrosion protection
•	Organic binder • Synthetic solid lubricant • Solvent • Olive-grey • Cured: 60 min at 120°C	Low friction • Good lubrication • Chemical resistant • Good protection against wear and stick-slip • Electrically insulating
COMPOUNDS		
•	Silicone compound • Inorganic • Translucent • FDA • ACS • DVGW • NSF 51 • NSF 61	Static seals • Very adherent compound • Wide range of temperature resistance • Excellent resistance to water washout • Good chemical resistance
DISPERSIONS		
•	Dispersion of solid lubes in mineral oil • Black	Increases load carrying capacity • Reduces friction and wear • Reduces running noise • Improves running-in • Prevents and reduces pitting in gears
•	Mineral • Lubricating solids • Additives • Transparent • Viscosity 12,5 cSt at 40°C	Penetrating and Lubricating • Loosening properties

Molykote® Product Range Lubricants



* Load carrying capacity, Falex test ASTM-D-2625

** Weld load, Four ball machine test, DIN 51350

In the following tables please find a small selection of our proven solutions.

Product Name	Temperature	Loads
<i>Molykote</i> ® BG-20	-45°C to +180°C	2.400 N**
<i>Molykote</i> ® BR-2 Plus	-30°C to +130°C	3.600 N**
<i>Molykote</i> ® Longterm 2 Plus	-25°C to +110°C	3.800 N**
<i>Molykote</i> ® Longterm W2	-30°C to +110°C	2.400 N**
<i>Molykote</i> ® Longterm 00	-40°C to +110°C	3.400 N**
<i>Molykote</i> ® G-2003	-50°C to +140°C	2.200 N**
<i>Molykote</i> ® PG-75	-40°C to +130°C	1.300 N**
<i>Molykote</i> ® EM-50L	-40°C to +150°C	1.400 N**
<i>Molykote</i> ® Multilub	-25°C to +120°C	2.200 N**
<i>Molykote</i> ® 44	-40°C to +200°C	1.100 N**
<i>Molykote</i> ® FS 3452	-30°C to +230°C	4.400 N**
<i>Molykote</i> ® PG 21	-50°C to +190°C	1.600 N**
<i>Molykote</i> ® PG 54	-50°C to +180°C	2.000 N**
<i>Molykote</i> ® 33 Medium	-73°C to +180°C	1.200 N**
<i>Molykote</i> ® 55-O Ring	-65°C to +175°C	•

Speeds(DN)	Features	Properties
GREASES		
800.000	Ester • Lithium Complex • Beige • NLGI 2-3	High speed • Wide range of thermal resistance
350.000	Mineral • Lithium • MoS2 • Black • NLGI 2	Extreme pressure • Long-term lubrication • High loads
250.000	Mineral • Lithium soap • MoS2 • Black	Extreme pressure lubrication • Good corrosion inhibiting properties • Good adhesive properties
350.000	Mineral • Lithium • Lubricating solids • White • NLGI 2	Grease with high adhesion • High load capacity
.	Mineral • Lithium • MoS2 • Black • NLGI 00	Extremely adhering grease • High load capacity • Good protection against wear and corrosion
35.000	PAO • Lithium soap • White • NLGI2	Very good low-temperature behavior • Good water resistance • Long service life • Compatible with most plastics and elastomers
.	Semi-synthetic • Lithium • Solid lubricant • Beige • NLGI 2	Combination metal / plastic • Long lubrication duration • Good low temperatures • Very low friction coefficient
.	PAO • Lithium • White • NLGI 1	Noise reduction • Wide temperature resistance range • Improves adhesion on surfaces
300.000	Mineral • Lithium • Brown • NLGI 2	High-performance multi-purpose grease
SILICONE GREASES		
44L - 350.000 44M - 300.000	Off-white • Lithium soap thickened • Silicone grease • Available as 44 Light - NLGI 1 or as 44 Medium - NLGI 2	Resists oxidation, moisture • Wide service temperature range • Excellent lubricant for plastic components • Low to moderate loads • Moderate to high speeds.
.	Joint grease • Fluorosilicone • Resistant to chemicals • PTFE • White NLGI 2-3	Water resistant grease and water washout • High oxidation resistance • High dropping point • Wide temperature resistance range • Resistant to chemicals
.	Silicone • Lithium complex • White • NLGI 2	Wide temperature resistance range • High oxidation resistance • High water resistance • Excellent protection against corrosion
.	Lithium complex • Silicone • White • PTFE • NLGI 2-3	Wide temperature resistance range • Low friction • Excellent protection against corrosion and oxidation
(33 M) 200.000 (33 L) 250.000	Silicone • Lithium-white • NLGI 2 • (33 M) and NLGI 1 (33 L)	High oxidation resistance • Wide temperature resistance range • Excellent behavior at low temperatures • Compatible with many plastics
.	Silicone grease • Lithium • White • NLGI 2	Dynamic seals • Rust resistant grease • Wide range of temperature resistance • Compatible with seals

Molykote® Product Range Lubricants



* Load carrying capacity, Falex test ASTM-D-2625

** Weld load, Four ball machine test, DIN 51350

In the following tables please find a small selection of our proven solutions.

Product Name	Temperature	Loads
<i>Molykote®</i> D	-25°C to +250°C	2.600 N**
<i>Molykote®</i> DX	-25°C to +125°C	4.800 N**
<i>Molykote®</i> TP 42	-25°C to +250°C	3.000 N**
<i>Molykote®</i> P-40	-40°C to +250°C	3.000 N**
<i>Molykote®</i> G-N Plus	-25°C to +450°C	2.800 N**
<i>Molykote®</i> G-Rapid Plus	-35°C to +450°C	5.300 N**
<i>Molykote®</i> P-1900	-30°C to +300°C	3.200 N**
<i>Molykote®</i> Metalform Wax Solution	.	1.200N**
<i>Molykote®</i> Metal Cleaner Spray	.	.
<i>Molykote®</i> Separator Spray Oil	-40°C to +200°C	.
<i>Molykote®</i> Metal Protector Plus Wax solution	.	.



Speeds(DN)	Features	Properties
ANTI-SEIZE PASTES		
•	Mineral oil based paste containing white solid lubricants	Clean white paste • Handles very heavy loads • Will not drip or run • Excellent protection against fretting corrosion
•	Mineral oil based paste containing white solid lubricants	Clean white paste • Handles very heavy loads • Will not drip or run • Excellent protection against fretting corrosion and galling
•	High load carrying capacity • Prevents stickslip • Good corrosion protection • Excellent protection against galling • Beige	Very adherent • Resistant to water washout • Excellent abrasion protection
•	Yellowish-brown • Solid lubricant paste	Low coefficient of friction • High load-carrying capacity • Long term lubrication • No drop point • Good low-temperature properties
•	Gray-black paste or spray of MoS2 and other lubricating solids in mineral oil	Low coefficient of friction • Extreme loads • Low speeds
•	Mineral • Lubricating solids • Black • MoS2	Low friction coefficient • High load capacity • Prevents contact corrosion
•	Mineral oil - Lubricating Solids • Aluminum complex • White • NSF-H1	Low friction • Water resistance • Excellent protection • Non-stick steel / stainless steel
MAINTENANCE		
•	Synthetic wax • Transparent • Solvents • Corrosion inhibitors	Improves tool life • Excellent performance at high-grade steel and aluminum • No risk of contamination
•	Solvent combination • Colourless	Metal Cleaner • Dissolves dirt quickly
•	Silicone • NSF-H1 • Transparent	Very good release properties • Lubricates plastic and rubber parts • Wide range of operating temperatures
•	Synthetic wax • Transparent • Dry coating • Salt spray test: 510 hrs • Drying: 90 minutes	Very high corrosion protection • Transparent coating



Dow Corning® Adhesives & Sealants

You can depend on Dow Corning® brand adhesives and sealants to help you get the job done right for bonding and sealing applications in railway market. These high-performance materials are proven, effective problem-solvers. They provide good adhesion strength on most substrates for high-quality assembly, and long-lasting, flexible seals for advanced product design and efficient equipment service.



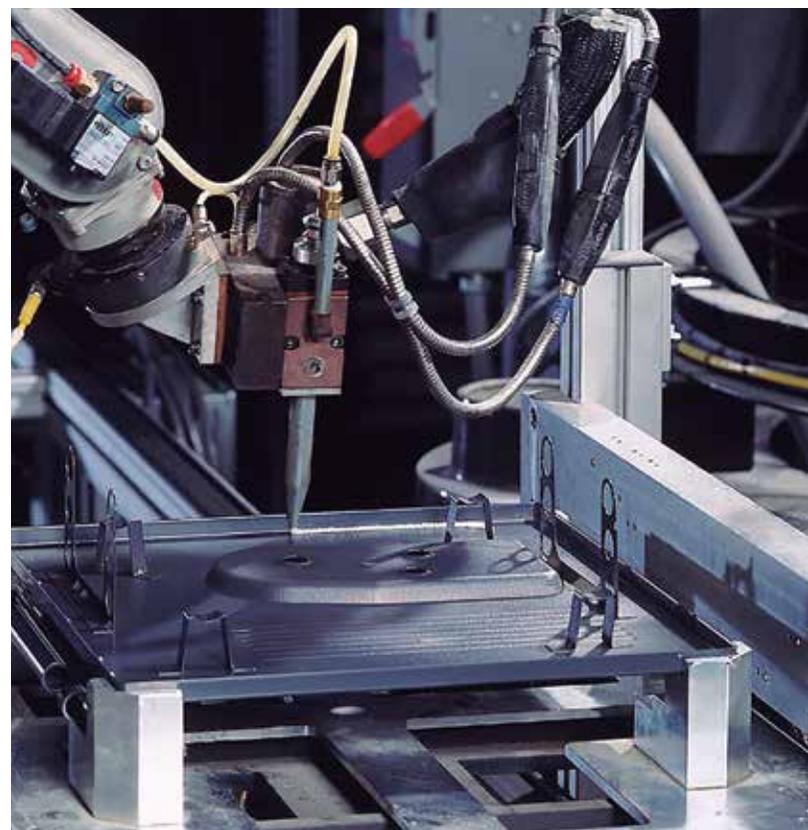
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* In the following table please find a small selection of our proven solutions.

Product Name	Product Description	Temperature
<i>Dow Corning®</i> Firestop 3-6548	Silicone RTV Foam	-55°C to + 180°C
<i>Dow Corning®</i> Firestop 700	Silicone Rubber Sealant	-55°C to + 180°C
<i>Dow Corning®</i> 7091	High Performance Neutral Cure Silicone Sealant	-55°C to + 180°C
<i>Dow Corning®</i> AS 7096N	Translucent Neutral Cure Sealant	-50°C to + 150°C
<i>Dow Corning®</i> 734	Flowable Silicone Adhesive Sealant	-65°C to + 180°C
<i>Dow Corning®</i> 752	General Purpose Silicone Adhesive Sealant	-50°C to + 180°C
<i>Dow Corning®</i> 3525	High Performance MoistureCuring Sealant	-55°C to + 180°C



Skin-over Time	Elongation at Break (ASTM 412)	Tensile strength (ASTM 412)	Shore A Hardness	Features
.	.	.	.	2-Part RTV foam • Mix Ratio 1:1 w/w • Low viscosity • High fire resistance • EN 45525-2 HL3/R22
10 min	500%	1,0 MPa	13	White, Black and Gray • Excellent wettability on PMMA • Alkoxy • EN 45545-2 HL2/R22
15 min	680%	2,5 Mpa	37	Good mechanical strength • Alkoxy
10 min	500%	1,0 MPa	13	Clear • Excellent wettability on PMMA • Alkoxy
7 min	315%	1,5 MPa	27	Flowable Self Leveling • Room Temp. Cure • Acetoxy Group • Excellent Dielectric Properties
10-15 min	490%	2,4 MPa	24	Room Temp. Cure • Non-Sag Paste Consistency • Acetoxy
30 min Tack free time	700%	2,5 MPa	37	Excellent "unprimed" adhesion • Outstanding UV resistance • Neutral cure



Dow Corning® Electronics Protection

Whether your electronics module or assembly demands an adhesive offering proven performance, flexible processing options, simpler assembly or thermal management, Dow Corning's advanced silicone adhesives and sealants can help you achieve your most challenging design goals.

Today, we are a world leader in high-performance silicone adhesives, potting materials, conformal coatings and thermal management solutions.



Authorized Distributor

* In the following table please find a small selection of our proven solutions.

Product Name	Category	Properties
<i>Dow Corning®</i> 4 compound	Electrical Insulating Compound	Silicone • Translucent white • Grease
<i>Dow Corning®</i> 1-2577	Conformal Coating	Silicone • 1 part • UL 94 V-0 • Mil-I-46058C • Thinner OS-10 / OS-20 / OS-30 • IPC-CC-830
<i>Dow Corning®</i> 3-4207	Dielectric Tough Gel	Silicone • Translucent green • UL V 94-V1
<i>Dow Corning®</i> 3140	Silicone Coating	Silicone • 1 part • UL 94 V-1 • Mil A 46146 • IPC-CC-830 • Clear
<i>Dow Corning®</i> 3145	Clear non-flowing adhesive	Silicone • 1 part • MIL-A-46146 • Gray/Clear
<i>Dow Corning</i> Sylgard® 170	Thermal Pottants	Silicone • 2-Part • 1:1 • UL 94 V-0 • Mil Spec • Black
<i>Dow Corning</i> Sylgard® 517	Silicone Gel	Silicone • 2-part 1:1 • Clear
<i>Dow Corning®</i> TC-5622	Thermally Conductive Compound	Silicone • Gray • Grease
<i>Dow Corning®</i> EE-3200	Encapsulant	Silicone • 2-Part • 1:1 • UL 94 V-0 • Dark gray



Viscosity (mPa.s)	Hardness	Tack Free Time (min)	Dielectric strength (kV/mm)	Thermal Conductivity (W/m.K)	Pot Life	Cure Time	Elongation (%)	Features
.	.	.	18	.	.	.	.	High dielectric strength • Low volatility • Moisture resistant
950	Shore A 80	7	16	.	.	.	.	Medium viscosity • Good abrasion resistance and adhesion to the surface • UV indicator
425	Shore 00 59	.	.	.	10 min	90 min RT, 3min 100°C	.	Primerless adhesion • Fast cure • UV indicator
34400	Shore A 32	116	15	.	.	.	419	Good flowability • UL • MIL and IPC tested • Adhesive or coating • UV indicator
.	Shore A 46	64	20	.	.	.	626	Non-flowing adhesive • High tensile strength and elongation
2135	Shore A 47	.	18	0,48	15 min	24h 25°C, 25 min 70°C, 10 min 100°C	148	Low viscosity
465	110 gr	.	17	.	2 hrs	3h30 100°C, 35min 150°C	.	Low viscosity • Self healing gel
95000	.	.	.	4,3	.	.	.	High conductivity • Flowable compound
1700	Shore 00 20	50	14	0,5	30 min	3h 25°C, 20min 50°C	340	Low Stress encapsulant • EN 45545-2 HL3/ R22 to R26



Our Railway Industry Solutions



TRANSFORMER

Xiameter® PMX-561



STRUCTURE

Molykote® P-40
Dow Corning® 7091
Dow Corning® 734



ELECTRONICS PROTECTION

Dow Corning Sylgard® 170
Dow Corning® EE-3200



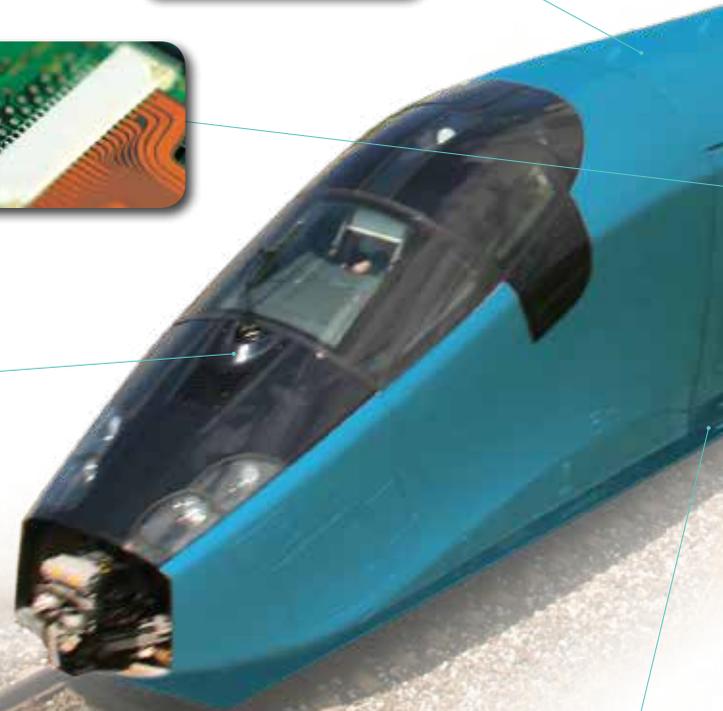
TRAIN CONTROLS

Molykote® 3400 A Lead Free



RAIL LINES

Molykote® EM 50 L
Molykote® 3400 A Lead Free



CABLES AND HVAC

Dow Corning® 4



PANTOGRAPH

Molykote® P-40



BUFFER AND COUPLING

*Molykote® 3402-C Lead Free
Molykote® Multilub
Molykote® Polygliss-N*



BOGIE

*Molykote® Gn-Plus
Molykote® G-Rapid Plus
Molykote® Longterm 2 Plus
Molykote® Longterm 00
Molykote® Multigliss
Molykote® Powder Spray
Molykote® PG 54
Molykote® 3400 A Lead Free
Molykote® DX
Molykote® D-321R*



INTERIORS

*Molykote® D
Molykote® PG 54
Molykote® PG 21
Molykote® 33 Medium
Molykote® M-55 Dispersion
Molykote® D-7409
Molykote® PG-75
Molykote® 3452*



TRACTION SYSTEM AND CHASSIS

*Molykote® HSC Plus
Molykote® BG-20*



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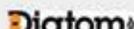
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