

THE MILLENNIUM COUPLING COMPANY
MCC GERMANY

2026

HOSE COUPLINGS · INDUSTRIAL HOSES · ACCESORIES

**Silicone Hose
Specialities**

CREATIVE · INNOVATION · CONNECTIV



E-Mail: info@mcc-germany.com
Telefon: +49(0)2241/932580
Adresse: Langbaorghstr. 5; 53842 Troisdorf

www.mcc-germany.com



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2026

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Applications in Automotive & Industrial:

Silicone hoses have been widely used in automotive and industrial applications for many years. They are recognized for their high performance, excellent flexibility, and long service life.



HEAVY DUTY HOSES

Developed for demanding heavy-duty vehicle applications.

WIRE REINFORCED COOLANT HOSE



CONSTRUCTION

- 2-ply of polyester reinforcement.
- Helical wire reinforcement.
- Standard in blue outside, red inside or blue color.

SPECIFICATIONS

- Available in ID-mm 6, 8, 10, 13, 16, 19, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 51, 54, 57, 60, 64, 70, 76, 80, 83, 89, 102, 114, 127, 130, 152.
- Thickness: 5mm
- Meet the requirement of SAE J20 R2
- Operating temperature: -55°C to +176°C
- Resists cracking, leaks, aging, and other chemicals. Not for fuel or gasoline.
- This unique design increases the burst pressure meanwhile offer excellent flexibility. It has a good performance against the vacuum.
- Please note the hose starts to lose flexibility gradually when the inner diameter larger than 38mm.

3-PLY COOLANT HOSE



CONSTRUCTION

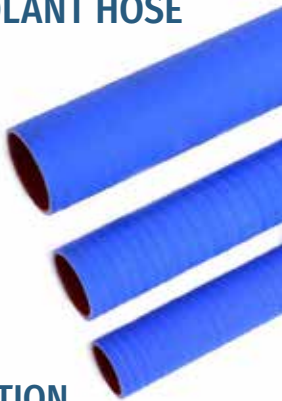
- 3-ply of polyester reinforcement.
- Standard in blue outside, red inside.
- Standard in 1m length.
Other lengths are available.

SPECIFICATIONS

- Available in ID-mm 6, 8, 10, 13, 16, 19, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 51, 54, 57, 60, 64, 70, 76, 80, 83, 89, 102, 114, 127, 130, 152.
- Thickness: 5mm
- Meet the requirement of SAE J20 R1
- Operating temperature: -55°C to +176°C
- Resists cracking, leaks, aging, and other chemicals. Not for fuel or gasoline.



4-PLY COOLANT HOSE



CONSTRUCTION

- 4-ply of polyester reinforcement.
- Standard in blue outside, red inside.
- Standard in 1m length. Other lengths are available.

SPECIFICATIONS

- Available in ID-mm 6, 8, 10, 13, 16, 19, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 51, 54, 57, 60, 64, 70, 76, 80, 83, 89, 102, 114, 127, 130, 152.
- Thickness: 5
- Meet the requirement of SAE J20 R1
- Operating temperature: -55°C to +176°C
- Resists cracking, leaks, aging, and other chemicals. Not for fuel or gasoline.

SILICONE HEATER HOSE



CONSTRUCTION

- 1-ply of polyester reinforcement. Standard in blue outside, red inside. Standard in 25m
- Other lengths are available.

SPECIFICATIONS

- Available in ID-mm 6, 8, 10, 13, 16, 19, 22, 25, 38.
- Thickness: 4mm (22, 25, 38 with 4,5mm wall)
- Meet the requirement of SAE J20 R3
- Operating temperature: -55°C to +176°C
- Resists cracking, leaks, aging, and other chemicals. Not for fuel or gasoline.

TURBO CHARGER HOSE



CONSTRUCTION

- 4-ply of aramid reinforcement.
- Standard in red color.
- Standard in 1m length. Other lengths are available.

SPECIFICATIONS

- Available in ID-mm 6, 8, 10, 13, 16, 19, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 51, 54, 57, 60, 64, 70, 76, 80, 83, 89, 102, 114, 127, 130, 152.
- Thickness: 4mm"
- Operating temperature: -55°C to +260°C
- Resists cracking, leaks, aging, and other chemicals. Not for fuel or gasoline.



FIBERGLASS TURBO CHARGER HOSE



CONSTRUCTION

- 3 to 6-ply of aramid reinforcement.
- Standard in red color.
- Operating temperature: -55°C to +260°C
- Resists cracking, leaks, aging, and chemicals. Not for fuel or gasoline.
- Designed for extremely high pressure under high temperature. (where no vibration is present)
- Talk to us for more information.

CAC HOSE - HOT SIDE



CONSTRUCTION

- 4-ply of aramid reinforcement.
- Standard in 2 or 3 rings, more options are available on request.
- Standard in red color.
- Standard in 152mm and 200mm length. Other lengths are available.
- Available in ID-mm 34, 38, 42, 48, 54, 60, 70, 76, 89
Thickness: 4,2mm
- Operating temperature: -55°C to +260°C
- Resists cracking, leaks, aging, and chemicals. Not for fuel or gasoline.

HEAVY DUTY HOSES

Developed for demanding heavy-duty vehicle applications.

CAC HOSE - COLD SIDE



CONSTRUCTION

- 4-ply of aramid reinforcement.
- Standard in 2 or 3 rings, more options are available on request.
- Standard in blue or blue outside/red inside color.
- Standard in 6" and 8" length. Other lengths are available.
- Available in ID-mm 50, 54, 57, 60, 64, 67, 70, 73, 76, 80, 83, 86, 89, 95, 99, 102, 114, 127, 140, 152
- Thickness: 4,2"
- Operating temperature: -55°C to +176°C
- Resists cracking, leaks, aging, and chemicals. Not for fuel or gasoline.

90°/ 45° ELBOW COOLANT HOSE COLD SIDE & HOT SIDE



CONSTRUCTION

- 4-ply of polyester reinforcement.
- Standard in blue outside/red inside color.
- Available in ID 10, 13, 16, 19, 22, 25, 29, 32, 35, 38, 41, 44, 48, 50, 54, 57, 60, 64, 67, 70, 73, 76, 80, 83, 86, 89, 95, 99, 102, 114, 127, 140, 152.
- Standard in 152mm and 200mm length. Other legs are available.
- Thickness: 5mm
- Operating temperature: -55°C to +176°C
- For higher temperature need, please use the aramid reinforced with max 260°C hoses.
- Resists cracking, leaks, aging, and chemicals. Not for fuel or gasoline.

UNIVERSAL HOSES

High-quality silicone universal hoses available in a wide range of sizes and dimensions to meet diverse application requirements.



SILICONE 1 METER



CONSTRUCTION

- 3 to 5-ply of polyester reinforcement
- Standard in black/blue/red color
- Standard in 1-meter length. Other lengths are available.

SPECIFICATIONS

- Any ID is available from 6 to 152mm.
- Thickness range:
6 to 48mm (3-ply 4mm)
50 to 85mm (4-ply 5mm)
89 to 152mm (5-ply 5mm)
- Resists cracking, leaks, aging, and other chemicals.
- Operating temperature: -55°C to +176°C.
Max 260°C is available for high temperature applications.

SILICONE ELBOWS

Available in 45° Elbow, 90° Elbow, 135° Elbow, 180° Elbow



CONSTRUCTION

- 3 to 5-ply of polyester reinforcement
- Standard in black/blue/red color
- Standard in 100mm, 125mm, 152mm, 200mm and 250mm. Other length are available.

SPECIFICATIONS

- Any ID is available from 6 to 152mm. (For 100mm and 125mm legs, the ID only available from 6 to 100mm)
- Thickness range:
6 to 48mm (3-ply 4mm)
50 to 85mm (4-ply 5mm)
89 to 152mm (5-ply 5mm)
- Resists cracking, leaks, aging, and many chemicals.
- Operating temperature: -55°C to +176°C. Max 260°C is available for high temperature applications.

ELBOW REDUCER

45° Elbow Reducer
90° Elbow Reducer



CONSTRUCTION

- 3 to 5-ply of polyester reinforcement
- Standard in black/blue/red color
- Standard in 100mm, 125mm, 152mm, 200mm and 250mm. Other length are available.

SPECIFICATIONS

- Any ID is available from 6 to 152mm. (For 100mm and 125mm legs, the ID only available from 6 to 100mm)
- Thickness range:
6 to 48mm (3-ply 4mm)
50 to 85mm (4-ply 5mm)
89 to 152mm (5-ply 5mm)
- Resists cracking, leaks, aging, and many chemicals.
- Operating temperature: -55°C to +176°C. Max 260°C is available for high temperature applications.



SINGLE HUMP



CONSTRUCTION

- 3 to 5-ply of polyester reinforcement.
- Standard in black/blue/red color.
- Standard in 76mm,100mm.

SPECIFICATIONS

- Any ID is available from 6 to 152mm.
- Thickness range:
6 to 48mm (3-ply 4mm)
50 to 85mm (4-ply 5mm)
89 to 152mm (5-ply 5mm)
- Operating temperature: -55°C to +176°C.
Max 260°C is available for high temperature applications.
- Resists cracking, leaks, aging, and other chemicals.
Not for fuel or gasoline.

VACUUM HOSE



CONSTRUCTION

- Extruded non-reinforcement.
- Standard in black/blue/red color.
- Standard in 25m coils.
Other lengths are available.

SPECIFICATIONS

- Any ID is available from 2 to 12mm
- Thickness range: 1 to 5mm.
- Operating temperature: -55°C to +176°C.
- Resists cracking, leaks, aging, and other chemicals. Not for fuel or gasoline.

STRAIGHT REDUCER



CONSTRUCTION

- 3 to 5-ply of polyester reinforcement.
- Standard in black/blue/red color.
- Standard in 76mm, 100mm, 125mm, 127mm length. Other length are available.

SPECIFICATIONS

- Any ID is available from 6 to 152mm.
- Thickness range:
6 to 48mm (3-ply 4mm)
50 to 85mm (4-ply 5mm)
89 to 152mm (5-ply 5mm)
- Operating temperature: -55°C to +176°C. Max 260°C is available for high temperature applications.
- Resists cracking, leaks, aging, and other chemicals.

CHARGE AIR HOSES FOR COMMERCIAL VEHICLES

Developed for use in turbocharged and charge air cooling systems, including compressor outlets, air intake lines, and intercooler connections. For increased performance requirements, the hose design can be further optimized with wire reinforcement and convoluted sections, resulting in improved resistance to deformation and enhanced flexibility.

MERCEDES



OEM Numbers:

A0249970882	N90027105005
A0249970382	Ø50x200mm
A0029975452	90027106002
0020945482	Ø60x120mm
0020946382	Ø70x70mm
0010947982	A0005010582
A0249970782	Ø65x150mm
A0020945782	Ø85x90mm
A0020945582	A0029970852
0020946082	Ø15x90mm
0020945282	N900271022024
A0005010082	A0029872443
A0005016082	Ø60/50x130mm
A0005010182	Ø70/50x140mm
A0005016182	0009970653
A3 3715018082	A0029971152
A3 3715017982	A0029976352
0020946982	A0029970852
0020943482	A0005010582
A6285283282	0009870443
A0029976352	0009970653

RVI RENAULT



OEM Numbers:

5010514310
 5010315483
 5010315483
 5010095482
 5005026298

NEOPLAN

OEM Numbers:

A0249970782
 47412204000

DAF

OEM Numbers:

1286075	1204236
1346328	1650940
1204236	1377572
0291452	0528299
0292577	0281514
1378391	

SCANIA



OEM Numbers:

488368
 390581
 1442579
 1358202
 1522010
 1522011
 Ø80x182mm
 1375718
 Ø76x80mm

SETRA

OEM Numbers:

Ø115X160mm
 4.741.291.400
 Ø70x100mm



VOLVO



OEM Numbers:

8149800
20589123
1676744
20589122
20561450
1675098
1660264
466328
Ø25x100mm
470464
1195081
470327

MAN

OEM Numbers:

81963200175	81963010543	81906320170
81963200148	81964200506	Ø70x150mm
81963200115	81963010590	Ø75x70mm
81963010901	81963010648	51963300190
81963010902	Ø6x1000mm	81963010594
81963010903	Ø26x60mm	81963010624
Ø90x200mm	Ø50x70mm	81963010600
81963200159	51963300359	81963200132
81963200168	81963300300	
81963010587	Ø57x110mm	



IVECO

OEM Numbers:

41026109	Ø51x70mm
41026110	Ø44x100mm
42088621	Ø83x80mm
Ø90x150mm	Ø90x90mm
Ø27x80mm	

AMERICAN TRUCKS

OEM Numbers:

2014134C2 International	3899126C1 International	3170764 Caterpillar
2024703C2 International	3945596C1 International	F50-6308
1673866C2 International	503232C1 International	Peterbilt & Kenworth
3541592C1 International	571611C1 International	F04-6006
3543541C1 International	571598C1 International	Peterbilt & Kenworth
2608804C3 International	7094706C1 International	M50-6012-532231700
3543544C1 International	7094705C1 International	Peterbilt
3558834C2 International	7076703C1 International	M50-6012-572230950
3582899C2 International	M50-6012-572230950	Peterbilt
3610350C1 International	4919970 Cummins	FRE1020-00001 Freightliner
3610353C1 International	3818267 Cummins	
3865657C1 International	4936622 Cummins	
3872072C1 International	2239257 Caterpillar	





CUSTOM HOSE SOLUTIONS

Developed for a wide range of applications and tailored to meet diverse OEM and aftermarket requirements.

REDESIGN



DESCRIPTION

Original assembly kits often consist of multiple individual components such as clamps, connectors, plastic parts, and related elements, with performance typically aligned to standard requirements. Our experienced custom solutions team can redesign these assemblies into an integrated one-piece hose solution to help reduce potential leak points, optimize performance, and incorporate application-specific features..

VARIETIES OF OPTIONS

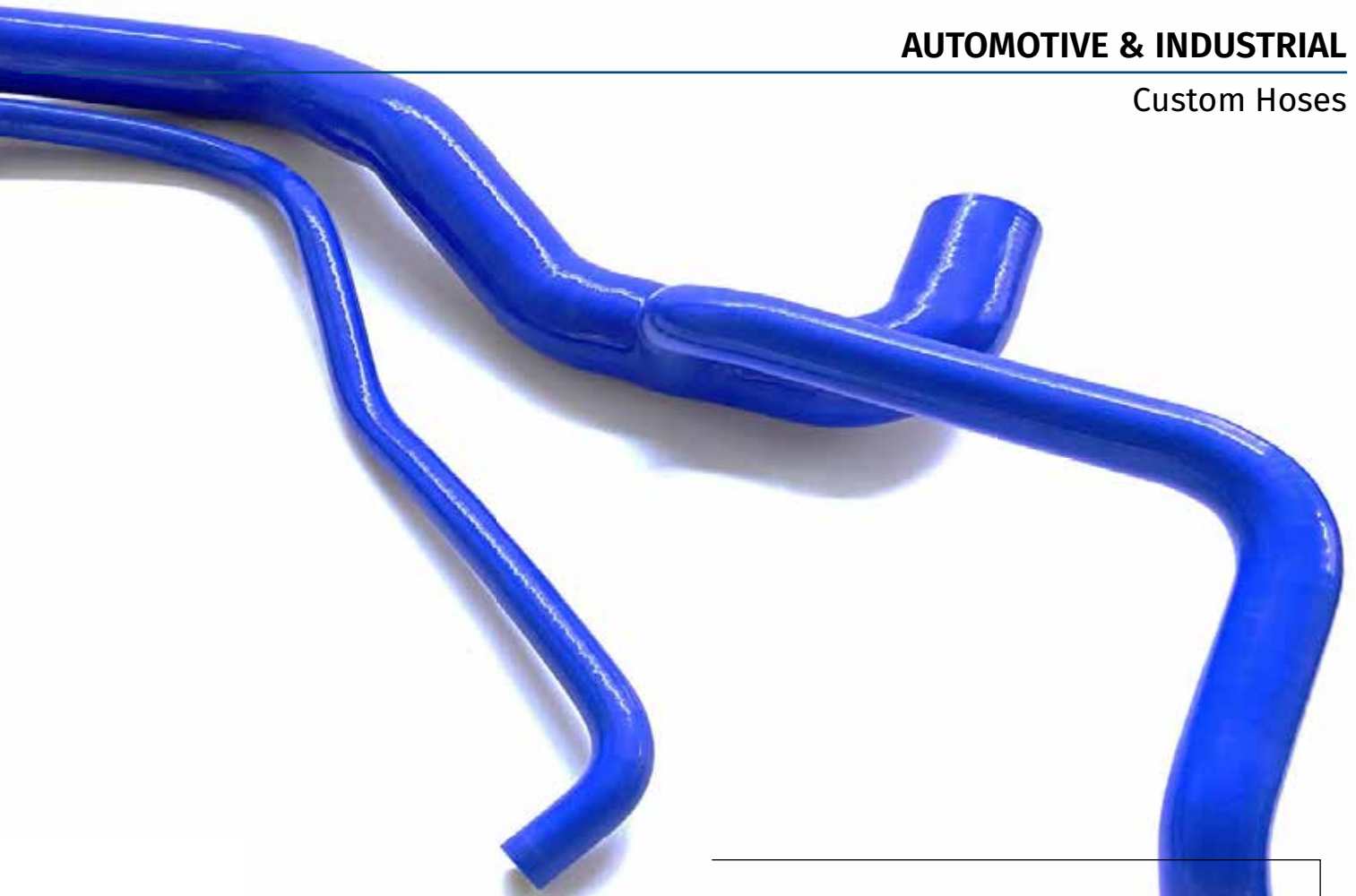


DESCRIPTION

Our company works in close collaboration with leading raw material manufacturers to ensure consistent, reliable, and fully traceable product quality.

The raw material options including:

- Industrial Silicone (max 180°C and 260°C)
- FVMQ (Fluorosilicone)
- FKM (Fluororubber)
- Food Grade Silicone (FDA, BfR & EC 1935/2004)
- Sanitary Silicone (UPS Class VI)
- EPDM Rubber
- Nitrile Rubber
- ACM Rubber
- AEM Rubber
- CM Rubber
- Neoprene Rubber
- Plastic (Such as PA66, PA12 etc)



PERFORMANCE UPGRADE



DESCRIPTION

The combination of the hose with reinforcing rings or an integrated helical wire significantly enhances performance, enabling it to withstand elevated operating pressures as well as demanding vacuum conditions.

Two reinforcement options are commonly applied:

External rings secured with silicone ribs on both sides, primarily improving burst pressure resistance.

Continuous wire or rings embedded within the hose layers, providing a cleaner overall appearance and improved resistance to both vacuum and burst pressures..

HYDROGEN, FUEL CELL & BATTERIES

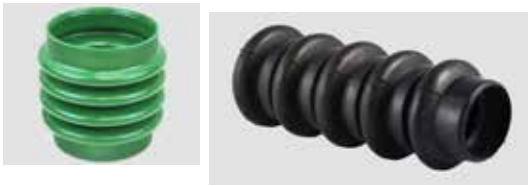


CONSTRUCTION

Hydrogen and fuel cell vehicles generate electrical energy from hydrogen or battery systems, which is then used to drive the electric powertrain or stored temporarily in the traction battery. Due to these specific operating conditions, hose solutions must be free from inclusions and manufactured to elevated quality standards in order to support long service life and protect sensitive fuel cell systems. To reduce the risk of fluid leakage, these hoses are often developed as highly integrated assemblies, which increases production complexity and requires advanced manufacturing expertise. With broad experience in supplying hose solutions for demanding OEM applications, we are available to provide further information on request.



MOULDED BELLOWS



With extensive experience since 2011 in the development and production of molded bellows, hose solutions, and gaskets, MCC supports a broad range of applications across various material types and enables efficient, streamlined project implementation.

FIRE RETARDANT HOSE



Developed specifically for transit applications, these hose solutions are manufactured from flame-resistant materials with low smoke emission and reduced toxic fume generation. Silicone and EPDM fire-retardant hose constructions can be designed to meet relevant EN 45545-2 R22/R23 requirements. From prototype quantities to large-scale series production, MCC provides reliable support across the full project and production process.

HOSE ROLL

Versatile hoses suitable for agricultural, automotive, construction, and industrial uses.



EPDM Hose Roll



NBR Hose Roll

SILICONE FLEX HOSE - CORRUGATED ENDS

High Pressure



- Available in ID 13 to 38mm
- Thickness 3-ply 4mm
- Length in 1 to 5m

Manufactured with an integrated steel wire spiral within the reinforcement layers, this design provides enhanced flexibility beyond the capabilities of conventional straight hose constructions.

SILICONE FLEX HOSE - SMOOTH ENDS

Low Pressure



Made with a steel wire spiral and 2-ply polyester reinforcement in the center, with multiple plies at both ends. Sizes DN13-70mm, lengths 350, 500, 700, 750, and 1000mm. Recommended working pressure: ID ≤50mm, 3 bar; ID >50mm, 2 bar.



MORE HOSES FOR SPECIAL NEEDS

Explore further solution.

MATTE COLOR HOSE



Developed for applications where the functional advantages of silicone are required together with a more conventional rubber-style surface appearance. Selected hose constructions can be manufactured from black silicone and finished with a special surface treatment to achieve a matte look while retaining the typical performance benefits of silicone. Matte finishes can also be realized in other colors such as red or blue, depending on the application and design requirements.

OIL RESISTANT SILICONE HOSE



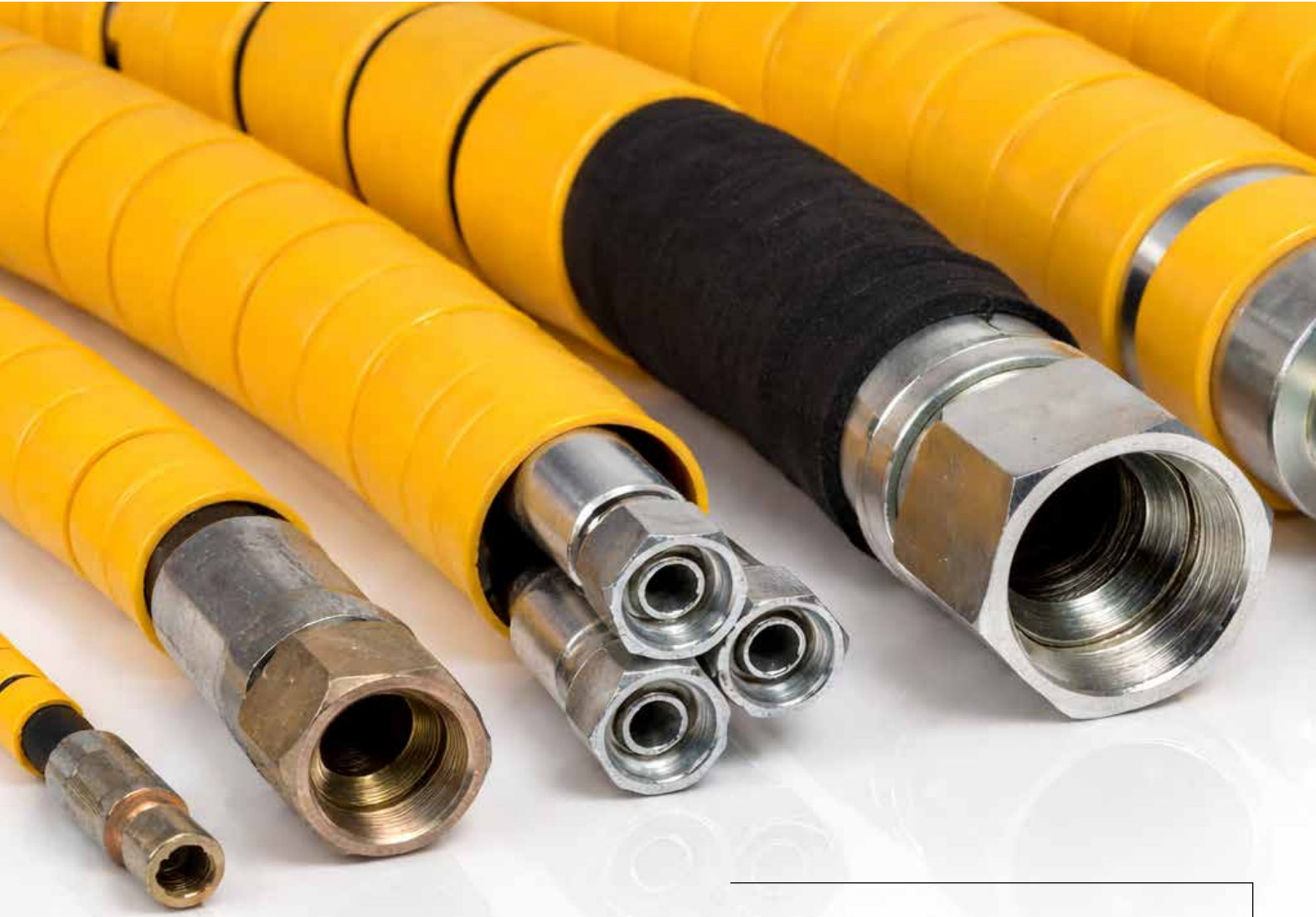
Increasingly stringent emissions requirements and rising engine performance levels are driving greater demand for oil-resistant hose solutions in automotive applications.

Typically, two solutions are used:

- FVMQ-lined silicone hoses
- FKM-lined silicone hoses

From these, various combinations are developed to suit different conditions. For example:

- FVMQ+polyester / FKM+polyester for standard oil resistance 180°C
- FVMQ+aramid / FKM+aramid for high-temperature oil resistance 260°C



SPIRAL GUARD



Available in inner diameters from 10 to 152 mm, with lengths customizable to specific application requirements. Operating temperature range: -50°C to $+100^{\circ}\text{C}$. Available in black, red, blue, yellow, and additional colors on request. Suitable for applications in mining, machinery, forestry, agriculture, commercial vehicles, and automotive sectors.

FILTERS FOR DIFFERENT APPLICATIONS



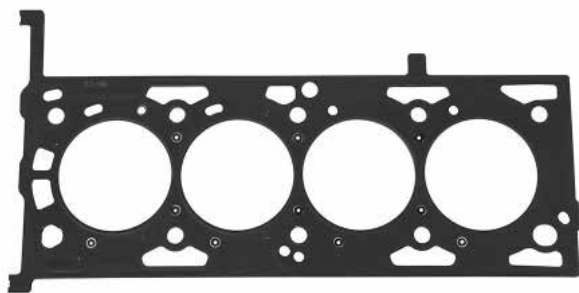


CLAMPS

FOR AUTOMOTIVE & INDUSTRIAL



HEAD GASKET





MARINE APPLICATIONS

APPLICATIONS IN AUTOMOTIVE, INDUSTRIAL & MARINE:

High-performance silicone hose solutions for demanding marine applications, including boats and yachts.



MARINE HOSES

Suitable for marine engine wet exhaust applications in open-ended system configurations.



SILICONE MARINE WET EXHAUST HOSE ONE HUMP

DESCRIPTION

The Silicone Marine Wet Exhaust One Hump Hose is developed for marine engine wet exhaust systems. It offers resistance to exhaust gases, ozone, mild chemicals, antifreeze, and salt water, and can be manufactured in accordance with relevant SAE J2006, NMMA, and ABYC exhaust hose requirements.

- Available in ID x Length:

34 x 120	152 x 203
48 x 130	168 x 203
51 x 150	203 x 203
54 x 150	203 x 254
64 x 150	220 x 305
76 x 180	254 x 203
89 x 150	254 x 254
89 x 203	254 x 305
102 x 150	270 x 305
102 x 203	305 x 305
114 x 203	324 x 305
127 x 150	355 x 305
133 x 203	355 x 355
140 x 203	406 x 406

- Thickness in 4 to 6-ply of polyester.
- Operating Temperature: -50°C to 180°C, short time for 200°C

SILICONE MARINE WET EXHAUST HOSE TWO HUMP

DESCRIPTION

The Silicone Marine Wet Exhaust Two Humps Hose is developed for marine engine wet exhaust systems. It offers resistance to exhaust gases, ozone, mild chemicals, antifreeze, and salt water, and can be manufactured in accordance with relevant SAE J2006, NMMA, and ABYC exhaust hose requirements..

- Available in ID x Length:

152 x 203	355 x 305
152 x 355	355 x 355
203 x 203	355 x 508
203 x 254	406 x 355
203 x 355	406 x 406
220 x 305	406 x 508
254 x 203	457 x 457
254 x 305	508 x 305
254 x 355	508 x 355
305 x 305	508 x 470
305 x 355	

- Thickness in 4 to 6-ply of polyester.
- Operating Temperature: -50°C to 180°C, short time for 200°C

SILICONE HEATER HOSE 2-PLY PREMIUM

DESCRIPTION

The 2-ply premium silicone heater hose is designed for increased pressure capability and extended service life. It offers resistance to oil mist, lubricants, chemicals, UV exposure, and ozone. Suitable for water and ethylene glycol-based engine coolant systems, it is an ideal solution for connections in heater circuits and coolant circulation systems.



SILICONE MARINE WET EXHAUST HOSE STRAIGHT LENGTH



DESCRIPTION

The Silicone Marine Wet Exhaust Hose Straight Length is designed to compensate for engine vibration and movement within exhaust systems. In contrast to conventional rubber hose constructions, it retains its flexibility without becoming brittle or hard over time. It offers resistance to heat, aging, exhaust gases, and ozone, and can be manufactured in accordance with relevant SAE J2006, NMMA, and ABYC exhaust hose requirements.

- Available in ID x Length:

25 x 1000	89 x 1000
28 x 1000	95 x 1000
32 x 1000	102 x 1000
35 x 1000	114 x 1000
38 x 1000	127 x 1000
34 x 1000	140 x 1000
41 x 1000	152 x 1000
45 x 1000	168 x 1000
48 x 1000	178 x 1000
51 x 1000	508 x 1000
54 x 1000	203 x 1000
57 x 1000	220 x 1000
60 x 1000	254 x 1000
64 x 1000	305 x 1000
70 x 1000	356 x 1000
73 x 1000	406 x 1000
80 x 1000	457 x 1000
83 x 1000	

- Available in length 1m, 2m and 4m. The ID from 168mm only available on 1m length.
- Thickness in 4 to 6-ply of polyester.
- Operating Temperature: -50°C to 180°C, short time for 200°C

SILICONE MARINE WET EXHAUST HOSE WIRE REINFORCED



DESCRIPTION

The Silicone Marine Wet Exhaust Hose with wire reinforcement is developed for demanding applications such as main engine and generator exhaust systems, engine cooling circulation, and intake lines. The integrated wire reinforcement helps maintain hose stability under suction and in tight bend configurations. It offers resistance to exhaust gases, ozone, mild chemicals, antifreeze, and salt water, and can be manufactured in accordance with relevant SAE J2006, NMMA, and ABYC requirements.

- Available in ID x Length:

19 x 1000	83 x 1000
25 x 1000	89 x 1000
28 x 1000	95 x 1000
32 x 1000	102 x 1000
35 x 1000	114 x 1000
38 x 1000	127 x 1000
34 x 1000	140 x 1000
41 x 1000	152 x 1000
45 x 1000	168 x 1000
48 x 1000	178 x 1000
51 x 1000	203 x 1000
54 x 1000	220 x 1000
57 x 1000	254 x 1000
60 x 1000	305 x 1000
64 x 1000	356 x 1000
70 x 1000	406 x 1000
73 x 1000	457 x 1000
76 x 1000	508 x 1000
80 x 1000	

- Available in length 1m, 2m and 4m. The ID from 168mm only available on 1m length.
- Thickness in 4 to 6-ply of polyester.
- Operating Temperature: -50°C to 180°C, short time for 200°C

PHARMA

Cleanroom Production: Our food and pharmaceutical hose solutions are manufactured and packaged in a cleanroom environment to support stringent hygiene requirements and enable versatile application across sensitive industries.







BRAIDED SILICONE HOSE



DESCRIPTION

Platinum-cured braided silicone hoses are typically available in single- or double-braided constructions. They are designed for low-pressure fluid transfer applications where tight bend radii are not required. The polyester yarn integrated into the hose wall increases structural stability and improves resistance to compression.

- Conform to FDA 21 CFR 177.2600, BfR Standard part XV, EC 1935/2004(A, B, C, D1). Not for D2 and fatty food.
- Operating Temperature: -50°C to 180°C.
- Transparent or red/blue outside transparent inside.
- Available any ID from 4mm to 38mm
- Thickness from 2.5mm to 6mm.
- Length in 20m or 25m coil. Other lengths on request.
- Suitable for CIP and SIP cleaning.
- Odourless, tasteless, non-toxic.

CAC HOSE - HOT SIDE



DESCRIPTION

Platinum-cured silicone tubing is designed for food-related and comparable applications. As an extruded, non-reinforced tubing solution, it is intended for standard transfer duties and is not suitable for continuous steam exposure, high-pressure applications, or implantation use.

- Conform to FDA 21 CFR 177.2600, BfR Standard part XV, EC 1935/2004 (A, B, C, D1). D2 and fatty food.
- Operating Temperature: -50°C/+180°C, short time for 200°C.
- Length in 20m, 25m coil.

ID x Wall mm	ID x Wall mm	ID x Wall mm	ID x Wall mm
2 x 1	5 x 2	8 x 1.5	12 x 2
2 x 1.75	5 x 2.5	8 x 2	12 x 3
2 x 2	5 x 3	8 x 3	14 x 2
3 x 1	6 x 0.5	8 x 4	15 x 2
3 x 1.25	6 x 1	9 x 1	16 x 2
3 x 2	6 x 1.5	9 x 2	18 x 2
3 x 2.5	6 x 2	9 x 3	18 x 3
4 x 0.5	6 x 2.5	9 x 4	20 x 2
4 x 1	6 x 3	10 x 1	20 x 3
4 x 1.5	7 x 1	10 x 2	20 x 3.5
4 x 2	7 x 1.5	10 x 2.5	22 x 3
4 x 3	7 x 2	10 x 3	25 x 2
5 x 0.5	7 x 3	10 x 4	25 x 4
5 x 1	8 x 1	12 x 1.75	25 x 5



HOSE SOLUTIONS FOR FOOD AND PHARMA

Thanks to their stability, high-temperature resistance, and flexibility, these hose solutions are suitable for a wide range of applications in the food and pharmaceutical industries.

BRAIDED SILICONE HOSE WITH HELICAL WIRE



DESCRIPTION

Platinum-cured braided silicone hose with integrated helical wire reinforcement is intended for the same application range as the non-wire version, while providing increased strength for higher pressure requirements and maintaining a high degree of flexibility. In addition, the reinforced construction offers reliable vacuum resistance..

- Conform to FDA 21 CFR 177.2600, BfR Standard part XV, EC 1935/2004(A, B, C, D1). D2 and fatty food
- Operating Temperature: -50°C to 180°C
- Available in transparent color
- Available any ID from 4mm to 38mm
- Thickness from 5mm to 6mm
- Suitable for CIP and SIP cleaning.
- Odourless, tasteless, non-toxic.

SILICONE HOSE WITH HELICAL WIRE



DESCRIPTION

Platinum-cured silicone tubing with integrated helical wire reinforcement is designed for applications comparable to standard silicone tubing, while offering increased stability under elevated pressure and vacuum conditions. Its flexible construction also helps reduce the risk of cracking during operation..

- Conform to FDA 21 CFR 177.2600, BfR Standard part XV, EC 1935/2004(A, B, C, D1). D2 and fatty food
- Operating Temperature: -50°C to 180°C, short time for 200°C
- Available any ID from 6mm to 102mm
- Thickness from 5mm to 5.5mm.
- Suitable for CIP and SIP cleaning.
- Odourless, tasteless, non-toxic.

USP CLASS VI HOSE



Sanitary hose solutions developed for demanding applications in the pharmaceutical, biomedical, cosmetic, and food industries.



USP VI 4-PLY SILICONE HOSE



DESCRIPTION

Platinum-cured hoses designed for critical pharmaceutical, biomedical, cosmetic, and food applications. Not recommended for vacuum use.

- Conform to
USP Class VI
FDA 21 CFR 177.2600
BfR Standard part XV
EC 1935/2004(A, B, C, D1). D2 and fatty food.
- Available in ID 13mm, 16mm, 19mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 38mm, 41mm, 45mm, 51mm, 64mm, 76mm, 89mm, 102mm
- Operating Temperature: -50°C to 180°C, short time for 200°C.
- Standard length in 4m.
6m length available on request.
- Thickness in 4ply 5mm.
- Suitable for CIP and SIP cleaning
- Odourless, tasteless, non-toxic.

USP VI 4-PLY SILICONE HOSE WITH WIRE



DESCRIPTION

Platinum-cured hoses designed for critical pharmaceutical, biomedical, cosmetic, and food applications. Helical wire reinforcement makes them an excellent choice for both vacuum and pressure use.

- Conform to
USP Class VI
FDA 21 CFR 177.2600
BfR Standard part XV
EC 1935/2004(A, B, C, D1). D2 and fatty food.
- Available in ID 16mm, 19mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 38mm, 41mm, 45mm, 51mm, 64mm, 76mm, 89mm, 102mm
- Operating Temperature: -50°C to 180°C, short time for 200°C.
- Standard length in 4m.
6m length available on request.
- Thickness in 4ply 5mm.
- Suitable for CIP and SIP cleaning
- Odourless, tasteless, non-toxic.



FDA 4-PLY SILICONE HOSE



DESCRIPTION

Platinum-cured hoses designed for critical pharmaceutical, biomedical, cosmetic, and food applications. This type is not suitable for vacuum use.

- Conform to
USP Class VI
FDA 21 CFR 177.2600
BfR Standard part XV
EC 1935/2004(A, B, C, D1). D2 and fatty food.
- Available in ID 16mm, 19mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 38mm, 41mm, 45mm, 51mm, 64mm, 76mm, 89mm, 102mm
- Operating Temperature: -50°C to 180°C, short time for 200°C.
- Standard length in 4m.
6m length available on request.
- Thickness in 4-ply 5.5mm.
- Suitable for CIP and SIP cleaning
- Odourless, tasteless, non-toxic.

FDA 4-PLY SILICONE HOSE WITH WIRE



DESCRIPTION

Platinum-cured hoses designed for critical pharmaceutical, biomedical, cosmetic, and food applications. Helical wire reinforcement makes them ideal for both vacuum and pressure applications.

- Conform to
USP Class VI
FDA 21 CFR 177.2600
BfR Standard part XV
EC 1935/2004(A, B, C, D1). D2 and fatty food.
- Available in ID 16mm, 19mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 38mm, 41mm, 45mm, 51mm, 64mm, 76mm, 89mm, 102mm
- Operating Temperature: -50°C to 180°C, short time for 200°C.
- Standard length in 4m.
6m length available on request.
- Thickness in 4-ply 5.5mm.
- Suitable for CIP and SIP cleaning
- Odourless, tasteless, non-toxic.



THERMAL INSULATION

Sleeves and Tapes:

MCC Germany offers a comprehensive portfolio of thermal insulation solutions designed to support the highest level of operational safety.





PRIORITY FIRESLEEVE



EN
45545-2
R22/R23

DESCRIPTION

The Standard Firesleeve is developed to protect hoses, wires, and cables from high temperatures and intermittent flame exposure. Manufactured from braided fiberglass yarns on a flexible substrate and coated with high-grade silicone rubber, it offers resistance to hydraulic fluids, oils, and fuels. The firesleeve helps reduce heat loss, supports personnel protection against burns, and enables the bundling of wires, hoses, and cables. Its robust silicone coating also helps repel molten metal splash, welding spatter, sparks, and contamination, while providing additional resistance to ozone and UV exposure.

- Available in ID 6mm to 160mm
- Continuously Operating at 260°C, peaks at 1650°C
- Standard in iron oxide red. Other colors are available.
- Length in 20m coil (ID 6 to 76mm), 15m coil (ID 80 to 102mm), 10m coil (ID 105 to 152mm). Other lengths are available.
- Velcro sleeve is available for undetachable hoses.

PRIORITY FIRESLEEVE



EN
45545-2
R22/R23

DESCRIPTION

Priority Firesleeve is manufactured from knitted bulky fiberglass yarns on a flexible substrate and coated with an upgraded silicone rubber compound to provide enhanced thermal insulation compared with standard firesleeve constructions. It is developed to protect hoses, wires, and cables from high temperatures and intermittent flame exposure. Resistant to hydraulic fluids, oils, and fuels, it helps reduce heat loss, supports personnel protection against burns, and enables the bundling of wires, hoses, and cables. The thick silicone coating also helps repel molten splash, slag, welding spatter, sparks, and contamination, while providing additional resistance to ozone and UV exposure..

- Available in ID 10mm to 51mm
- Continuously Operating at 260°C, peaks at 1650°C+
- Standard in iron oxide red. Other colors are available.
- Length in 20m coil.
- Velcro sleeve is available for undetachable hoses.

SLEEVES AND TAPES

MCC Germany's reliable solution for thermal insulation.

AEROSPACE FIRESLEEVE



EN
45545-2
R22/R23

DESCRIPTION

Aerospace Firesleeve is manufactured from a high-quality texturized fiberglass braided sleeve with a thick silicone rubber coating, providing enhanced thermal insulation performance compared with Priority Firesleeve. It is developed to protect critical hoses, cables, tubes, wires, and assemblies in demanding environments exposed to high temperatures, flame, and molten splash. Resistant to hydraulic fluids, oils, and fuels, it also helps reduce heat transfer from hot pipes and hoses, supporting energy efficiency and personnel protection. This firesleeve provides reliable system protection across industries including aerospace, industrial engineering, foundry, automotive, transportation, defense, machinery, and MRO applications.

- Available in ID 6mm to 45mm
- Continuously Operating at 260°C, peaks at 1650°C
- Standard in iron oxide red. Other colors are available.
- Length in 20m coil.
- Velcro sleeve is available for undetachable hoses.

NYLON SLEEVE



DESCRIPTION

Nylon Sleeve is braided from high-tenacity multifilament nylon yarn and offers excellent resistance to abrasion, UV exposure, and chemicals, while also providing effective dust protection. It is an economical and durable solution for extending hose service life, particularly in applications subject to severe wear and external degradation, and can also provide limited protection against burst effects and contamination. The smooth sleeve construction allows easy installation over hoses, chains, or cables and can be secured using nylon ties or clamps. Velcro-style sleeve versions are also available for non-detachable hose assemblies..

- Available in ID 10mm to 95mm. The popular sizes in ID 20mm, 25mm, 31mm, 36mm, 40mm
- Standard in black color.
- Operating Temperature: -40°C to 125°C
- Length in 50m coil.

SLEEVES AND TAPES

Various applications:

Suitable for a wide range of applications, including metals, hose fabrication, locomotive, oil and gas, glass, OEM and related industrial sectors.



SILICONE SELF-FUSING TAPE



DESCRIPTION

Silicone Self-Fusing Tape is a non-adhesive tape that bonds to itself as well as to compatible silicone sleeves and tapes. It offers resistance to high temperatures, intermittent flame exposure, and molten splash, while also providing good chemical stability against fuels, oils, water, acids, and many solvents. Commonly used as an end-wrap for firesleeves, it helps prevent the ingress of hydraulic oils and contaminants while supporting improved thermal insulation. When stretched to approximately 250% and applied in ring or spiral wrapping, the tape gradually fuses to itself without the need for heat or adhesive. It can be removed easily and leaves no residue.

- Standard in iron oxide red; Other color black, red, blue, white, grey is available on request.
- Size in 25mm width, 1mm thickness.
- Roll length available in 3m, 5m, 10m, 20m. Other lengths are available on request.
- More sizes and lengths please talk to us

SILICA FIBER SLEEVE



DESCRIPTION

Silica Fiber Sleeve protects hoses, cables, tubes, and wires from extreme heat, flames, and molten splashes. Made from pure silica fiber (96% SiO₂), it withstands continuous use at 1000°C and short-term exposure up to 1650°C with minimal shrinkage. It is also resistant to common chemicals and solvents.

- Standard in white color.
- The popular sizes are ID 10mm, 12mm, 15mm, 20mm, 25mm, 30mm. More sizes please talk to us.
- Available in 30m coil.
- Continuously Operating at 1000°C, peaks at 1650°C.



FIBERGLASS BRAIDED SLEEVE



DESCRIPTION

Silica Fiber Sleeve is developed to protect hoses, cables, tubes, and wires from extreme temperatures, flame exposure, and molten splash. Manufactured from 96% pure silica fiber (SiO_2), it is suitable for continuous use at temperatures up to 1000°C and for short-term exposure up to 1650°C , while maintaining minimal shrinkage. In addition, it offers resistance to many common chemicals and solvents.

- Standard in white color.
- The popular sizes are ID 10mm, 12mm, 15mm, 20mm, 25mm, 30mm. More sizes please talk to us.
- Available in 30m coil.
- Continuously Operating at 1000°C , peaks at 1650°C .

SILICONE SELF-FUSING TAPE



DESCRIPTION

Aluminum-Coated Fiberglass Sleeve is manufactured from high-temperature braided fiberglass with a reflective aluminum foil coating. It is designed to reflect more than 90% of radiant heat, helping to keep underlying cables, hoses, and wires at lower temperatures. The aluminum layer remains bonded to the fiberglass even under demanding thermal conditions, making this sleeve particularly suitable for protection against intense radiant heat from infrared sources such as superheated metal surfaces.

- Standard in silver color.
- Available in ID 5mm to 65mm
- Available in 1 meter length.
- Operating temperature range: $260^\circ\text{C} \sim 550^\circ\text{C}$.
- Velcro sleeve is available for undetachable hoses.



SILICONE COATED FIBERGLASS TAPE

- 260°C
- Multiple width available



FIBERGLASS TAPE

- 550°C
- Multiple width available



SILICA FIBER TAPE

- 1000°C
- Multiple width available



BASALT FIBER TAPE

- 760°C
- Multiple width available



SILICA FIBER SELFADHESIVE TAPE

- 1000°C
- Multiple width available



COLORED FIBERGLASS TAPE

- 550°C
- Multiple width available



ALUMINIUM COATED FIBERGLASS SELFAD- HESIVE TAPE

- 260°C
- Multiple width available



CERAMIC FIBER TAPE

- 1000°C
- Stainless steel reinforced.
- Multiple width available
- 650°C, fiberglass reinforced is available.



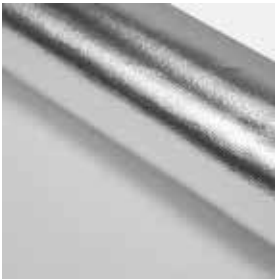
TAPES AND FABRICS

Further tape and fabric solutions available on request.



FIBERGLASS TAPE

- 260°C
- Single-side coating
- 0.5mm-3.0mm thickness



ALUMINIUM COATED FIBERGLASS FABRIC

- 260°C
- 0.2mm-2.0mm thickness



FIBERGLASS TAPE

- 260°C
- Double-side coating
- 0.5mm-3.0mm thickness



VERMICULITE COATED SILICA FIBER FABRIC

- 1000°C
- 0.7mm-1.3mm thickness

CATALOGUES

Excerpt and overview:

On this page, you will find an excerpt from our current catalogues and brochures. They provide an overview of our product range as well as further information about our solutions and applications. You can find a complete and always up-to-date overview of all documents on our website.



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WE DO IT UNDER PRESSURE



E-Mail: info@mcc-germany.com
Telefon: +49 (0)2241/932580
Adresse: Langbaughstr. 5; 53842 Troisdorf

www.mcc-germany.com

