



DRIVEN BY POSSIBILITY™



COOLING SYSTEMS

HEAVY-DUTY SILICONE COOLANT HOSE



GATES® HEAVY-DUTY SILICONE COOLANT HOSE

Newer heavy-duty engines with advanced emissions systems (from 2007 to current model year) produce higher under-hood temperatures and require the use of silicone coolant hose. In these low engine-air-flow and high heat conditions, such as in buses with engine front (EF) and engine rear (ER) configurations, Gates® Silicone Coolant Hose is the perfect product.

Gates offers high quality, 4-ply silicone coolant hose (in straight and elbow sections) in the industry standard blue colour to perform in demanding conditions. Straight sections are available in two varieties of recommended operating temperatures (176°C & 260°C); while elbow (45° & 90°) sections are engineered to perform at a recommended operating temperature of 176°C. Gates silicone hoses will keep your fleet moving by reducing down-time and lowering cost-per-kilometre.

INSTALL WITH CONFIDENCE. INSTALL GATES.



PRODUCT FEATURES

- Premium 4-ply construction
- Industry-standard blue cover colour for easy identification
- High heat resistance material meets or exceeds OE specifications
- Used when hose routing passes near turbo or hot side of the charged air system

SPECIFICATIONS

- 4-ply polyester-reinforced construction
- -53.9 to +176.6°C (-65 to +350°F) recommended operating temperature range
- -53.9 to +260°C (-65 to +500°F) recommended operating temperature range (Severe service silicone hose only)
- Resistant to electrochemical degradation (ECD)
- Meets and exceeds all requirements of SAE J20 R1, SAE J20 R1 H.T., Class A
- TMC RP303B Grade I and Grade II
- Mil spec A-A-52426
- UV- and ozone-resistant

For more information about Gates Heavy-Duty Silicone Coolant Hose contact your Gates Representative or visit www.gatesaustralia.com.au

STRAIGHT HOSE AND ELBOWS (176°C)				SEVERE SERVICE	POWER SHRINK BAND CLAMPS (PACKETS OF 10)		IDEAL CLAMPS (PACKETS OF 10)
HOSE ID	STRAIGHT HOSE	45°	90°	STRAIGHT HOSE			
	3 FT LENGTH	ARM LENGTH = 152mm		3 FT LENGTH			
	(-53.9°C TO 176.6°C)			260°C			
1/4"	24806	-	-	-	32915	SB15	-
3/8"	24807	-	-	-	32919	SB19	-
1/2"	24808	-	-	-	32922	SB22	6510E
5/8"	24810	-	-	-	32925	SB25	6512E
3/4"	24812	-	-	-	32929	SB29	6516E
7/8"	24814	-	-	-	32932	SB32	6520E
1"	24816	-	-	28225*	32934	SB34	6524E
1 1/16"	24817	-	-	-	-	-	6524E
1 1/8"	24818	-	-	-	-	-	6528E
1 1/4"	24820	-	-	28226*	32941	SB41	6532E
1 5/16"	24821	-	-	-	-	-	6532E
1 3/8"	24822	-	-	-	-	-	6532E
1 1/2"	24824	-	-	28227*	32948	SB48	6536E
1 5/8"	24826	-	-	-	-	-	6536E
1 3/4"	24828	28205	28217	28228*	32954	SB54	6540E
1 7/8"	24829	-	-	-	-	-	6540E
2"	24832	28206	28210	28229*	32960	SB60	6540E
2 1/8"	24833	-	-	-	-	-	6544E
2 1/4"	24836	28207	28211	28230*	32967	SB67	6548E
2 3/8"	24838	-	-	-	-	-	6548E
2 1/2"	24840	28200	28212	28231*	32973	SB73	6552E
2 5/8"	24841	-	-	-	-	-	6552E
2 3/4"	24844	28201	28213	28232*	32979	SB79	6556E
2 7/8"	24845	-	-	-	-	-	6556E
3"	24848	28202	28214	28233*	32986	SB86	6556E
3 1/8"	24850	-	-	-	32990	SB90	6560E
3 1/4"	24852	-	-	-	-	-	6560E
3 3/8"	24853	-	-	-	-	-	6560E
3 1/2"	24856	28203	28215	-	-	-	6560E
3 3/4"	24860	-	-	-	-	-	6572E
4"	24864	28204	28216	-	-	-	6572E
4 1/2"	24872	-	-	-	-	-	6572E
5"	24878	-	-	-	-	-	-
5 1/2"	24880	-	-	-	-	-	-
6"	24882	-	-	-	-	-	-

*Shrink Band clamps not available, use Ideal silicone hose clamps. Also available, Ideal Constant Tension clamps for 3/8" to 3" I.D. hose.

FREQUENTLY ASKED QUESTIONS

Silicone Coolant Hose - Straight & Elbows (45° & 90°)

Q: Why is the use of silicone hose so critical?

A: It's all about heat. Less air movement in new emissions engines creates an extreme engine compartment environment that requires the superior heat-resistance of silicone hose. This is especially true for hoses routed near the turbo or the hot side of the charged air system

Q: Does the colour of the silicone hose really matter?

A: In the heavy-duty market, blue is most often used to indicate silicone material for easy identification.

Q: Is there a difference in how silicone hose is constructed?

A: Yes; Gates Silicone Coolant Hose is constructed of premium 4-ply reinforcement materials vs. other 2- and 3-ply silicone hoses found in the market.

Q: Cold water leaks are a problem. Can the Gates Silicone Coolant Hose help with that?

A: Gates Silicone Coolant Hose combined with Gates Shrink Band (SB) Clamps eliminate the problem of cold water leaks. These maintenance-free, thermoplastic heat sensitive clamps retain their dynamic tension, never need tightening and stop leaks even on out-of-round applications.

Q: Is silicone hose OE on newer fleet vehicles?

A: Yes; for school bus and truck fleets requiring OE-specification replacements, Gates Silicone Coolant Hose meets or exceeds those requirements.

Severe Service Coolant Hose

Q: What are the benefits of this new coolant hose?

A: Gates new high temperature coolant hose is designed to exceed the demands of fleet and heavy-duty vehicles in critical and severe-service applications and situations that demand high reliability and longer service life than conventional hose.

Q: What made this reformulation necessary?

A: Compliance with 2007 and 2010 emission standards have resulted in higher under-the-hood temperatures for many diesel engine applications. Severe conditions drive the temperatures even higher, resulting in heat spikes above 176.6°C in the ambient air around the hose. These spikes degrade the polyester reinforcement found in most standard silicone coolant hose, softening – and sometimes melting – the reinforcement. This degradation shortens the working life and/or leads to premature failure of the hose.

Q: How is Gates Silicone Coolant Hose different?

A: Gates severe service hose is designed with a meta-aramid reinforcement that is surrounded by a specially-compounded silicone. These two materials work together to allow the hose to withstand heat spikes up to 260°C. This gives an additional 65.5°C of "headroom" to ensure the longest possible working life for a coolant hose.

Q: What are some typical applications?

A: Fire, Rescue, Ambulance, Military, Construction, Coach, Paving, Mining and Long-haul vehicles that experience extreme high ambient temperature spikes – typically defined as over 176.6°C.

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