



DRIVEN BY POSSIBILITY™



# GATES FLEETRANNER™ EPDM VS SILICONE HOSE

When is it suitable to use Ethylene Propylene Diene Monomer (EPDM) hose or silicone hose in commercial vehicle cooling system applications? This is a common question with many people presuming silicone is a premium option for these systems; which is not correct. Each hose type has features that make it suitable to different applications and a thorough analysis of the application environment should be carried out to determine which hose type will suit. Improved EPDM manufacturing techniques have created an alternative to silicone for many applications. Gates offers the FleetRunner™ EPDM range as well as a silicone hose range for these applications.

## EPDM HOSE VS SILICONE HOSE

EPDM HOSE
Lower cost (better profitability)
Superior cut/abrasion resistance
Heat resistant to 150°C (300°F) <ul style="list-style-type: none"> <li>■ Use of heat sleeve recommended when installed near exhaust</li> </ul>
Better sealing capability <ul style="list-style-type: none"> <li>■ Expands and contracts closer to the spout</li> <li>■ Adheres to spout</li> <li>■ Minimises cold water leaks</li> </ul>
50% higher pressure rating than silicone
Low H2O permeation
Resist under hood fluids
No requirement for specialised clamps

SILICONE HOSE
23% more expensive than EPDM
Higher heat resistance <ul style="list-style-type: none"> <li>■ Only required for temperatures exceeding 150°C (300°F)</li> <li>■ Suit near exhaust or hot-side turbo applications</li> </ul>
Less sealing capability <ul style="list-style-type: none"> <li>■ Expands and contracts at a higher rate</li> <li>■ Inert, so it will not adhere to spout</li> <li>■ Higher occurrence of cold water leaks</li> </ul>
Lower pressure rating than EPDM
High H2O permeation <ul style="list-style-type: none"> <li>■ 15 x more than EPDM</li> </ul>
Soft cover & tube <ul style="list-style-type: none"> <li>■ Requires special lined clamp for best performance</li> </ul>



FleetRunner™ EPDM Hose



Silicone Hose

The features of each type of hose highlight Gates FleetRunner™ EPDM is suitable for the majority of cooling system applications where temperatures are below 150°C (300°F), whereas silicone hose is suited specifically to applications with temperatures exceeding 150°C (300°F) such as those near the exhaust or hot side of a turbocharger. The EPDM hose provides the lowest ‘cost-per-kilometre’ solution in the majority of applications. EPDM also has better sealing properties and abrasion resistance suited to heavy-duty applications.

**CONTACT YOUR LOCAL GATES REPRESENTATIVE OR GATES CUSTOMER SERVICE AT +61 3 9797 9688 OR SALES@GATES.COM IF YOU'D LIKE TO LEARN MORE.**

