

FUEL SYSTEM



## BARRICADE® FUEL INJECTION HOSE



### A HIGH-TECHNOLOGY HOSE THAT SAVES YOU FUEL

Barricade® fuel injection hose is a low-permeation, multi-fuel compatible hose that virtually eliminates fuel vapour loss thanks to our 5-layer GreenShield™ barrier technology used in its manufacture. This saves you money and makes it one of the most environmentally responsible fuel line hoses in the industry. So it helps you, your customers and the environment.

### ONE HOSE FOR ALL FUELS AND APPLICATIONS

Barricade® fuel injection hose copes easily with today's more corrosive fuels. It operates in virtually any engine application that's equipped with a conventional carburettor, including:

- ▶ Carburetted engines
- ▶ Cars, light-duty trucks, small engines
- ▶ Off-highway vehicles and equipment

### TOP-QUALITY MEANS LONGER SERVICE LIFE

Like all our hoses, Barricade® fuel injection hose is made to Gates' high quality standards so you can offer a premium product to your customers who benefit from less downtime for hose replacement. Barricade® fuel injection hose is rated the best in its class for both high pressure environments and low permeation needs.

# BARRICADE® FUEL INJECTION HOSE



## NEW FUELS CAN DAMAGE STANDARD FUEL LINE HOSES

People use many fuel types across Europe: from diesel and biodiesel to a growing blend of petrols containing ethanol, methanol and various ethers. These new fuels help the environment by reducing pollution and our dependence on fossil fuels. But many contain chemicals that can damage the rubber of general purpose fuel line hoses, making early replacement necessary.

## WHY USE BARRICADE® FUEL INJECTION HOSE?

We developed the Barricade® fuel injection hose using much stronger and more durable materials to resist the corrosive nature of today's fuels. It can withstand even the most aggressive fuel mixtures and significantly cut fuel permeation, keeping fuel vapour out of the environment while still delivering peak fuel efficiency.

## THE BARRICADE® FUEL INJECTION HOSE BENEFITS

- ▶ Fuel savings from Barricade®'s incredibly low permeation rate – the lowest on the market at 1 g/m<sup>2</sup>/day.
- ▶ Easily complies with CARB and other environmental standards. It exceeds the requirements of SAE J30R14T2\*.
- ▶ Aramid reinforcement spiral braid for superior burst strength.
- ▶ Works with multiple fuels: approved for use with leaded and unleaded petrol, diesel, biodiesel up to B-100, E-10, E-15, E-85, 100% methanol, ethanol and gasohol fuels.
- ▶ Best-in-class working pressure of 1.55 MPa (15.5 kg/cm<sup>2</sup>) and a temperature range of -40°C to 125°C continuous, up to 150°C intermittent.

\* Except for kink resistance



**Do not use Barricade® fuel injection hose for in-tank or LPG applications. For fuel line hoses that will be submersed in petrol, use Gates submersible fuel line hose.**

PN									
		MPa	psi	MPa	psi	m	ft	mm	"
4219-06034	27347	1.55	225	8	1160	4.6	15	6	1/4
4219-06035	27339	1.55	225	8	1160	7.6	25	6	1/4
4219-06038	27348	1.55	225	8	1160	4.6	15	8	5/16
4219-06039	27340	1.55	225	8	1160	7.6	25	8	5/16
4219-06042	27349	1.55	225	8	1160	4.6	15	10	3/8
4219-06043	27341	1.55	225	8	1160	7.6	25	10	3/8

## BARRICADE® FUEL INJECTION HOSE CONSTRUCTION FEATURES



- 1. Barrier tube:** Designed to resist high heat, oils and aggressive fuels like ethanol.
- 2. GreenShield™ barrier:** Patent-pending thermoplastic material that delivers the lowest permeation in the industry.
- 3. Adhesion layer:** Serves as a second defence against oil and aggressive fuels if the tube and/or thermoplastic barrier become compromised.
- 4. Reinforcement:** Spiral textile reinforcement gives resistance against internal pressures and offers best-in-class working MPa.
- 5. Cover:** Fuel and oil resistant, with outstanding ozone and heat resistance, this layer covers and protects the underlying components.

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## BARRICADE® FUEL INJECTION HOSE MEANS SAFETY, LONG LIFE AND LOW RISK

Many OE car and truck manufacturers have been using low-permeation hoses like Barricade® fuel injection hose for over 20 years. And increasing regulation in many countries says that matching low-permeation replacement hoses must be installed for these vehicles.

Install a conventional hose on the car that is originally equipped with a low-permeation hose and you risk being held liable if the hose fails prematurely. This might mean increased customer claims in your workshop if an engine fails because of lost fuel pressure or a fuel hose breakdown caused by corrosive fuels.

Barricade® fuel injection hose protects you from this risk as it withstands all the aggressive fuel mixtures available in the market.

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## HELPS YOU MEET YOUR ENVIRONMENTAL COMMITMENTS

Barricade® fuel injection hose exceeds all current environmental standards. It is more than 100 times less permeable than a standard fuel hose and performs five times better than its nearest competitor. Barricade® fuel injection hose exceeds current California Air Resources Board (CARB) standards which set permeation losses at 15 g/m<sup>2</sup>/day maximum. Barricade® loses just 1 g/m<sup>2</sup>/day.



**VERSUS**



Sixty centimetres (two feet) of general purpose hose permeates up to 4 litres of hydrocarbon vapour into the atmosphere each year. Compare that to only two tablespoons (0.03 litres) of permeation with our superior Barricade® fuel injection hose.

# BARRICADE® FUEL INJECTION HOSE

## ANOTHER ADVANTAGE FROM GATES: BARRICADE® FUEL INJECTION HOSE MERCHANDISER (Product number 4986-10171)

With Gates' new six reel fuel line merchandiser you don't have to worry about running out of stock. Nothing is as easy as selecting hose from this practical 6 reel display: you choose the required diameter, cut off the correct length and you have exactly what you need. More information about sizes and quantities can be found here:

**NEW**



PN				
		mm	m	
4219-06035	27339	6	7.6	2 reels x 7.6m
4219-06039	27340	8	7.6	2 reels x 7.6m
4219-06043	27341	10	7.6	2 reels x 7.6m
PN				Quantity
7469-00153	91153	CUTTER		1

## BARRICADE® FUEL INJECTION HOSE IS YOUR ONE-STOP SOLUTION

- ▶ Longer service life means less downtime and happier customers
- ▶ Easy to use – compatible with all fuel mixtures in the market
- ▶ Performs five times better for permeation than its nearest competitor
- ▶ Protects the environment by reducing hydrocarbon emissions
- ▶ Reduces costly replacements and avoids liability issues
- ▶ Less stock needed thanks to one hose type for all your fuel hose replacements

**Save fuel, money and the environment with Gates Barricade® fuel injection hose.**

Gates.com/europe

Your distributor:

E2/70517