



tested



SamcoSport Silicone Hoses

One thing we always get asked is, 'why should I pay a premium amount for branded silicone hoses, when I can buy stuff on eBay for less?' Well, it's all down to quality. With a top-name brand and a proven reputation, you know exactly what you're getting. In the case of hoses, to withstand the rigours of prolonged use, they need to be made with the highest quality automotive grade materials. But many eBay specials are put together with silicone graded for use on cables or even shampoo! Not good.

The trouble with any silicone hose though, is they're pretty hard to scientifically test. Unless, that is, you've got a company like SamcoSport who are not only willing to let you use their

lab, but positively encourage you to test their products to destruction!

The plan was simple - hook up a load of different hoses to a special machine that pumps water at extremely high pressure, and record when they go pop! All the hoses were torqued to the same amount and all were run up to pressure at a constant rate. All we had to do was sit back and wait for the bang!

Test 1 – Silicone Vs Stock

First things first – how does a silicone hose compare to a standard rubber (or EPDM) hose? Now we all know silicone looks very nice, and it won't degrade over time either, but testing straight 'out of the box' two hoses (designed for the same car) gave some interesting results. One particularly interesting observation is that the rubber expands and deforms with the increasing pressure – the SamcoSport hose remained relatively rigid until it burst. This showed in the results when the rubber hose held a peak pressure first, then fell back to burst.

The Results

EPDM burst 6.5Bar (peak 7.8Bar)

SamcoSport 14.8Bar



This rubber hose took 7.8Bar of pressure before bursting



Midge loves an exploding hose

Test 2 – Silicone Hoses Compared

Now, what gives a silicone hose its strength are the plies of material running through it and the quality of their makeup. It's these specifications that change the strength of the overall hose. A standard SamcoSport hose, for example, is made up of 3-ply of reinforcing material. So, in the matter of keeping it fair, we tested Samco's hose, another 3-ply competitor and a thicker 4-ply job – both found on eBay for around a tenner a piece. All three hoses were ramped up with no distortion until they burst.

The Results

- Samco Sport – 17.2Bar
- 4-ply Competitor 1 – 16.65Bar
- 3-ply Competitor 2 – 2.95Bar



The Verdict

So what does this all mean? It seems you can't judge a hose by its colour! First, the quality of the silicone and reinforcing material is paramount. We can see this by comparing a cheap 3-ply silicone hose to a SamcoSport item which is nearly 5-times stronger.

Using more plies may look like a good solution too, but that's simply not true either – it's the *quality* of materials that counts, plus a thicker hose is harder to clamp meaning, on things like turbos, they can easily pop off!

As for the actual figures? Well they just prove that it really does take a bit of talent to burst a high-quality silicone hose. Even under extreme use, the radiator cap will blow off long before the hose pops – in fact, the radiator and waterpump will probably explode after 4-5Bar! To be fair, the standard hose did pretty well, but after a few thousand miles and plenty of under bonnet heat it will degrade – just look at the hoses on any high-mileage motor out there. Silicone (good quality silicone at least) won't degrade over time.

We can't test for this effectively without running all the hoses in the real world for 50K or so before hooking up the machine. In that case, the figures could be significantly lower – bad news for the cheap silicone ones out there! I wonder if they come with the lifetime warranty that SamcoSport offer? Probably not. A couple of extra quid could save you thousands in the long run – a new engine is an expensive fix.



We taped over the cheap hoses' branding to hide the shame!

SAMCOSPORT

THEY'RE A WORLD FAMOUS NAME IN SILICONE HOSES, BUT WHAT MAKES THESE GUYS SO GOOD?

Almost everybody in the modified car scene will have heard of Samco hoses. You'll find them under the bonnet of most the top tuned cars in the UK thanks to not only their great looks and huge application list, but due to the fact they give increased reliability due to their ability to withstand extreme pressure, without bursting or deforming like standard rubber or poorer quality silicone hoses.

Samco aren't just manufacturers of a popular product used in the modified car scene though, they actually are part of the car scene. Not only do they attend all the top shows and events in the UK and



overseas, but are official sponsors of the British Drift Championship, Fueltopia Barrel Sprint, and Gymkhana Grid series. Their involvement in the scene extends to sponsorship of big names in the drift scene such as Monster Energy drivers Butty's Buttler and Luke Woodham, one of the best drifters in the world, Darren McNamara, top drift teams Japspeed, Driftworks, SATS, Boss Motorsport, WKD and Lassa Tyres, and even Scandinavian diesel drift madmen Black Smoke Racing.



Luke Woodham showing that smoking isn't that bad for you.

But it's not just drifting they sponsor, with Time Attack masters Roger Clark Motorsport, and BTCC teams Airwaves Racing and eBay Motors also sponsored by Samco.

While Samco certainly sponsor a lot of top race teams with their hose products, the fact that a lot more of the worlds top race teams choose to use their hoses is the best advert for their quality and reliability you could ever get. Samco hoses are used

not only in top UK race series as mentioned above, but many of the leading World Rallycross, WRC, Formula Drift, NASCAR, and even the top Formula 1 teams use Samco hoses on their race cars by choice. Bear in mind, things such as Formula 1 money is not an issue at all, they want is the BEST parts in the world no matter what they cost, and when it comes to hoses what do they choose? That's right, SamcoSport!



The Samco Urchin ready to see some smoke!

The Tech

The exact same materials, techniques, and testing that goes into the hoses for these top motorsport cars are also used for your own car. In fact, as the hoses are all hand made in the UK by a team of experts, it's quite likely they were even made by the same person!

World class components, enormous application list, great looks, and affordable prices; what's not to like?



Lets see what your made of!



WE ARE
SILICONE

THE WORLD LEADER IN
PERFORMANCE SILICONE HOSE

PRODUCT BROCHURE



**EXTREME
DURABILITY**



**CRAFTED BY
HAND IN THE UK**



**CAN ENHANCE
ENGINE COOLING**



THE WORLD LEADER IN PERFORMANCE SILICONE HOSE

SamcoSport is the original performance silicone hose brand.

The pioneers in the development of direct replacement aftermarket hose kits, SamcoSport has always offered the most comprehensive range of kits and standard parts available in the marketplace.

Known for their quality, durability and reliability, SamcoSport continue to offer exceptional, cutting edge products. Each new product is designed and developed by an in-house team of engineers who use only original factory parts as guides to ensure optimum design accuracy and product fitment.

With over 830 Kits designed for almost 50 different vehicle manufacturers, SamcoSport are able to offer products for a wide range of applications ranging from high performance cars to motorcross bikes, classic & vintage vehicles to superbikes.



**EXTREME
DURABILITY**



**CRAFTED BY
HAND IN THE UK**



**CAN ENHANCE
ENGINE COOLING**

SamcoSport

The sign of quality More F1 teams trust SamcoSport than any other brand

Highest Quality Silicone

SamcoSport only use the highest quality automotive grade European silicones

Hand Made

Made by highly skilled craftsmen and 100% visually inspected in the UK

Multiple Layered Silicone

Using multiple layers adds strength to the hose and precision building minimises overlaps

Specialist Liners

SamcoSport have developed various liners for applications such as coolant air oil and fuel Please see page 7 for more details

Embedded Wire Helix

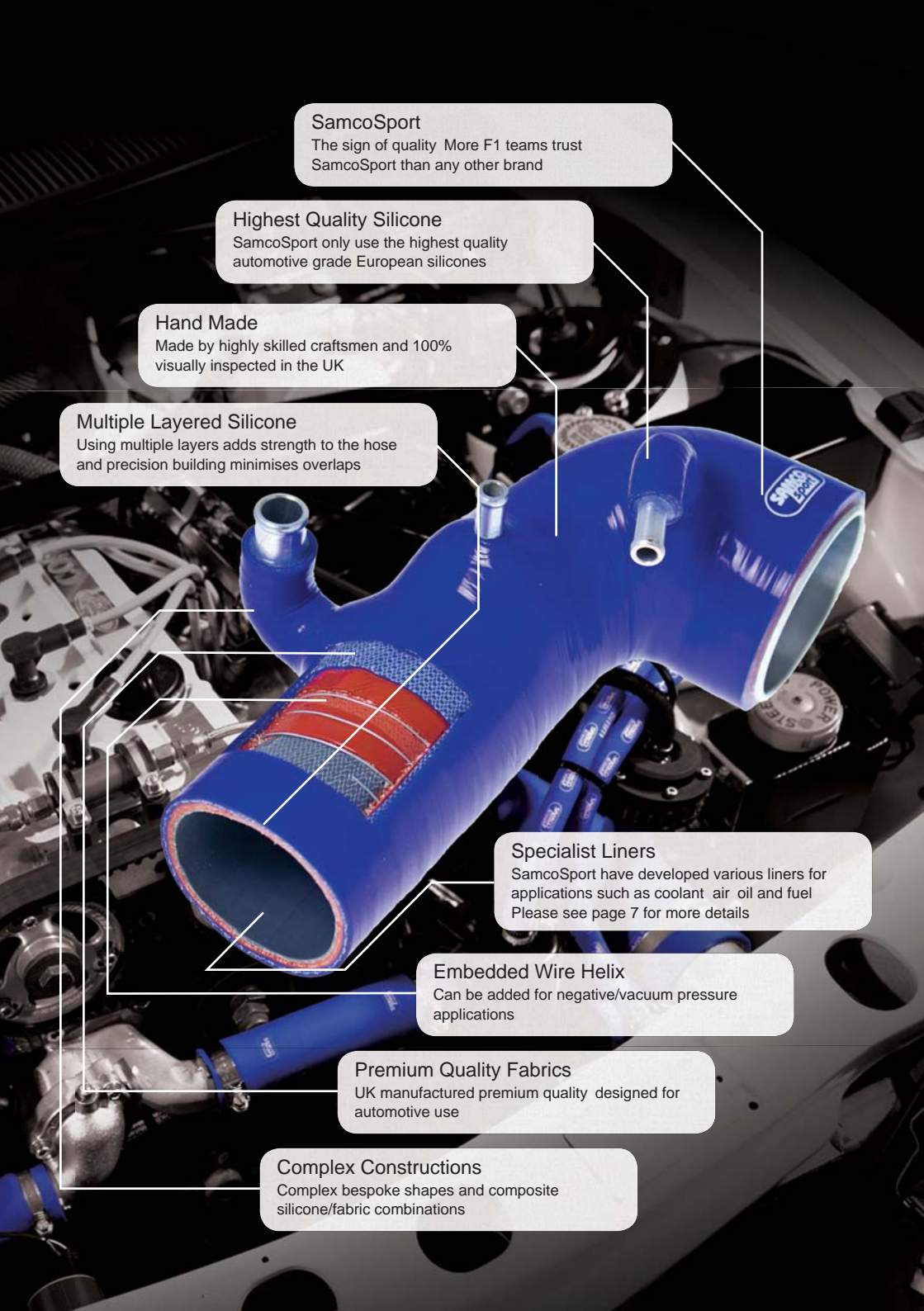
Can be added for negative/vacuum pressure applications

Premium Quality Fabrics

UK manufactured premium quality designed for automotive use

Complex Constructions

Complex bespoke shapes and composite silicone/fabric combinations



DIRECT REPLACEMENT SILICONE HOSE KITS



Car Kits

SamcoSport is always at the forefront when it comes to producing cutting edge Silicone Hose Kits for the newest cars. Our silicone hose kits offer guaranteed performance at extremes of pressure, temperature and vibration, backed up by extensive in-house and race track testing.

All Kits are specifically tailored to each application, with options such as dump valve relocation hoses and boost sensor connections built in. Each new kit is also tested on real cars by real drivers. Product testing in this way allows us to deliver a better product than the original OEM part.

Spoilt For Choice

With over 500 direct replacement car kits available, 19 colours and various different options for each kit, you really are spoilt for choice.



Motorbike Kits

Replacing standard OEM hoses results in increased performance and a better looking bike. Multipart components are re-designed by SamcoSport to be replaced by single piece hose, minimising potential leak points and improving flow efficiency through the use of Samco® Zero Block Tooling. SamcoSport hoses weigh less than standard OEM hoses and are more durable, providing better debris & crash resistance.

Our motorbike kits are developed and tested with some of the biggest names in motorsport. This allows us to produce high quality products designed for the race teams, and offer them directly to you.

Massive Range

We have over 400 bike kit applications including on-road bikes, off-road, ATV, Trials bikes and more. Our listings are constantly growing and as a result of our rapid in-house production capabilities, we are able to offer kits for brand new bikes sooner.



UNIVERSAL RACE PARTS

SamcoSport Universal Race Parts have become popular amongst all types of modifiers. Perfect for custom builds or connecting non-standard components, SamcoSport is proud to offer the world's widest range of universal silicone hoses.



Elbows

Large range of standard elbows, 45°, 60°, 90°, 120°, 135° & 180° available in bore sizes from 6.5mm to 102mm. Available with specialist lining options.



Straight Lengths

Supplied in 1 meter lengths SamcoSport straight hose bore sizes range from 6.5mm to 200mm. Also available with specialist lining options.



Superflex & Xtraflex

Perfect for race applications, these 3 ply hoses have a wire helix built in that allows bending without kinking or restricting flow.



Couplers

Designed for joining pipes these polyester reinforced hoses withstand temperatures up to 180°C (356°F). Straight coupler, hump & T-Piece available.



Reducers

Available as 90° or 45° Elbows or as Straight Hoses Reducers - perfect for stepping up or down bore sizes for fitment of non-standard parts.

SPECIALIST LINERS



SamcoSport Xtreme®

Developed for leading F1 customers, SamcoSport has now made this product available to the public. SamcoSport Xtreme is a high performance, extremely lightweight hose that can resist temperatures up to 250°C (482°F). The SamcoSport Xtreme range of parts will perform under the most extreme of environments, guaranteed.



Standard

Suitable for carrying coolant air and water. Maximum temperature of 180°C (356°F)



SamcoSport ProFuel™

SamcoSport ProFuel™ is the worlds first silicone hose liner to allow permanent fuel use. Suitable for Petroleum and Diesel fuels with a limited 2 year Warranty.



Fluoro

Designed for applications where Oil & Fuel vapour is present, Fluorosilicone lining protects the Silicone Hose. Available on most Universal Race Parts.



High Temperature

Reinforced with Aramid Fabric Lining this option allows the hose to withstand a maximum temperature of 250°C (482°F)

SAMCOSPORT ACCESSORIES

Designed to compliment SamcoSport's range of performance silicone hoses, these accessories have been specifically chosen for their reliability and dependability.



Blanking Caps & Plugs

Available as either a hand-made silicone cap (for colours, see page 9) or an aluminium blanking plug - brilliant for closing off unused pipe work.



SamcoSport Autoglym® Silicone Hose Wipes

Impregnated lint-free Silicone Hose Wipes are perfect for preventing & removing the build up of everyday traffic film & engine deposits.



Pro-Shield™ Titanium Exhaust Wrap

Made from premium quality titanium fibre material and woven into a multi-flex construction to be stronger. Supplied with stainless steel easy fit clip ties.



Hose Clip Kits

Made from Marine Grade 18/8 Stainless Steel with rounded edges and polished surfaces to prevent damage to the hose. Supplied with kits or available for bulk buy.



Stretch & Seal Tape

A 'life-saver' in the race world, 'Stretch & Seal' tape is a self amalgamating silicone that cross-bonds on application to form a seal. Hundreds of uses.



Blow Off Valves & Fitting Kits

Designed by SamcoSport and machined out of T6 aluminium alloy billet bodies using cutting edge CAD CAM technology, SamcoSport valve bodies are developed to withstand temperatures and pressures found near the turbo without distorting. Available in Ultra Silver, Stealth Black or Samco Blue.

Fitting kits include SamcoSport silicone hose and vacuum tubing, T6 alloy blanking plugs, spring loaded vacuum hose clips, plastic 'T' Piece vacuum hose joiner, and stainless steel hose clamps. (Where applicable)



Joiners & Adapters

Designed for joining hoses or for the installation of measurement sensors (billet only) - available as billet-alloy, rolled alloy or carbon fibre versions.



Vacuum Hose

Perfect for vacuum lines, washer tubing, coolant overflow, wire insulation and many other applications. Available in standard SamcoSport colours. See page 10

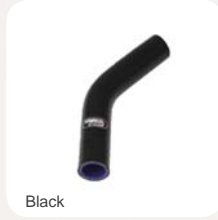


Samflex Ducting

Designed for race applications, such as brake cooling. Samflex Ducting is available in 1 or 2 ply and is made from glass reinforced silicone and a wire helix.

FINISHES & COLOURS

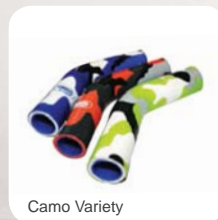
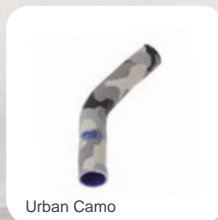
Standard Colours



Premium Colours +15%



Specialist Colours +35%



WHY TO CHOOSE SAMCOSPORT



SamcoSport hoses are the most reliable upgrade you can make to your engine. With a Lifetime Warranty* offered you can rest assured that your hoses will outlive your car. SamcoSport pioneered silicone hoses for the performance and racing aftermarket and are the experts in silicone hose. SamcoSport have over 20 years experience and operate out of the largest performance hose facility in Europe.



Milwaukee Yamaha - BSB

We at Milwaukee Yamaha use SamcoSport hoses because we aim to produce the best bike possible, and this means we expect the best parts. With SamcoSport's higher burst pressures, better flow qualities and styles essential to ensure the cooling systems covered in terms of performance. SamcoSport hoses are simply a must for us.'

Steven Bradley - Race Mechanic

British Drift Championship

SamcoSport are a major sponsor of The British Drift Championship and provide support and sponsorship to teams who compete within the series. The products are the very best, and can cope with the harsh demands of competitive drifting, which is just what our drivers need.'

Paul Mott - BDC Official