

## **TYM SEALS-HOSE OVERVIEW**

TYM supply a wide range of Silicone and EPDM hoses. Each of our products are bespoke to meet the customer's exact requirements in dimensions, temperature range (-70°C - +300°C on silicone), operating pressures, and resistance to a variety of mediums ensuring optimum long term reliability.

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### **Water Coolant Silicone Hoses**

TYM supply optimum quality water coolant silicone hoses for radiator, heater and coolant systems. TYM hoses feature an integral silicone liner to ensure excellent reliability and to maximise product life.

Suitable for water/glycol mediums with a typical working temperature of up to 160°C.

### **Turbo/Charge Air Hoses**

TYM supply turbo/charge air hoses for high pressure forced induction systems. Each hose is designed to meet the required operating pressures and temperatures to ensure optimum reliability. Steel rings can be used to minimise dilation during use and the option of using aramid re-inforced material rather than polyester allows for resistance to working temperatures of up to 220°C.



### **Silicone Hoses for Rail Applications**

TYM can supply silicone hoses built using a polyester re-inforced fire retardant silicone for low smoke and low toxicity which is often a mandatory requirement for the rail industry. The material used meets BS6853 and AFNOR NFF. 16-101 standards. The hoses can also be built with a wire re-inforcement to prevent collapse when in use on vacuum applications, such as toilet systems.

### **EPDM, Neoprene & VAMAC Hoses**

TYM can supply EPDM hoses suitable for a range of water coolant applications: this is a more cost-effective method of manufacture for very large quantities. Nitrile liners can be used for fuel delivery or oil mist breather systems. Neoprene is commonly used for low temperature air and oil mist applications and also has the benefit of low smoke and low toxicity properties. VAMAC can be used for applications where high temperature oil is involved.



### **Ref : Typical Silicone Rubber Hose Specification**

The hoses supplied meet the typical specification set out below :

Mat'l : Silicone Rubber (to SAE J20 Class A)

Layers of reinforcement : 2 to 5 Ply knitted Poly  
(For Higher temperature applications Aramid reinforcement is used)

Typical Temp Range : -40° to 170°C (Aramid upto 225°C)

Typical Min Working Pressure : 3.0 Bar (safety factor 3:1)

Material colour : Blue, Black, (Plus Bright Red, Green and Translucent)

Intended Typical Applications : Radiator/Coolant/Heater Systems  
Hot/Cold Air Systems (CAC/Turbo)

### **Advantages of Silicone Hoses :-**

A:Excellent resistance to UV.

B:Excellent Temperature Range

C:Suitable for low and volume production

D:Various Colour to suit Customer requirements

E:Hoses can be made in Straight Shapes and varying diameter sizes 6mm to 300mm

F:All Hoses are made with an integral liner to ensure there is no coolant leaks/wicking

G:Suitable for the modern demands of modern under bonnet applications

H:Hoses can be made with Wire reinforcement built in for Negative pressure applications.

I:Fluro-Silicone lined hoses are also available where the hose needs to be resistant to certain oils.

J:Food Quality – Hoses can be made with an FDA approved Inner where there is contact required with food.