

Turbolastic Sil Aramid

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Applications

It is especially recommended in turbocharged systems for industrial vehicles, due to its high capacity to withstand hydrocarbons and oil particles in the pressurized air. This reference is manufactured with aramid textile reinforcements and the silicone rubber compound is VMQ type (Vinyl-Methyl Quality).

Limitations

Respect the work pressure established values.

When the inner layer is made of VMQ or FVMQ gas oil and oil stains do not damage the tubes, but they should not be used to transport fuel or oil, not be submerged in these liquids.

The FKM inner layer is incompatible with ketones such as acetone.

This product is not recommended for the transport or abrasive particles.

Regulations

Silicone rubber used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

Properties

- Straight hoses with no convolutions, ideally suited to resist tension and tightness of vibration at high temperatures.
- Smooth inner and outer appearance, the outer layer color is orange, the inner layer could be orange when it is VMQ, blue when it is FVMQ and black when it is FKM.
- Excellent flexibility during the assembly process.
- Special silicone, formulated by Venair®, with excellent elastic properties.
- Highly resistant to hardening with very good compression characteristics, excellent resistance to thermal aging and oxidizing agents (oxygen, ozone, UV).
- Guarantees up to 10% compression in relation of its length without collapsing. It is able to absorb vibration between connected parts and avoiding tension and noise without the assembling of the external stainless steel rings.
- It offers the same resistive force to compression that the original Turbocharger construction.
- Operational temperature range from -60°C (-75 F) to +200°C (392 F), it may reach up to 220°C (428 F) during short periods of time.
- Standard manufacturing length is 4m (13.12 ft), but in some diameters can be produced up to 6m (19.69 ft).

Construction

This reference is manufactured with two aramid fabric reinforcement.

Technical Specifications

| Inner Diameter | | Wall thickness | | Working Pressure ISO 1402/2009 | | Bursting Pressure ISO 1402/2009 | |
|----------------|-------------|------------------------|------------------------------|-----------------------------------|------------------------|------------------------------------|------------------------|
| <i>mm</i> | <i>inch</i> | <i>+1/ -0.5 mm</i> | <i>+0.04/ -0.02 inch</i> | <i>Bar at 20°C</i> | <i>Psi at 68°F</i> | <i>Bar at 20°C</i> | <i>Psi at 68°F</i> |
| 50 | 2 | 4 | 0,157 | 4,7 | 68,2 | 14 | 203 |
| 76 | 3 | 4 | 0,157 | 3,7 | 53,7 | 11 | 159,5 |
| 90 | 3 35/64 | 4 | 0,157 | 3,3 | 47,9 | 9,75 | 141,4 |
| 100 | 4 | 4 | 0,157 | 3 | 43,5 | 9 | 130,5 |