

ELASTOMERS

Elastomeric gasket materials offer sealing for low temperature and pressure applications. They require lower bolt loads to seal, and offer excellent recovery due to their self-energising behaviour. They consist of a polymer inserted with vulcanising agents, fillers, pigments and various additives. Common elastomers are:

1. Natural Rubber

It is suitable for most inorganic salts, ammonia, mild acids and alkalis. It is not recommended for oil and solvents.

Temp. Range: -50 to 120 deg C.

2. Neoprene

It is suitable for oil, gas, moderate acids, alkalis, salt solutions, petroleum, solvents and fuels. It is not recommended for strong acids and greases, and most hydrocarbons.

Temp. Range -50 to 110 deg C.

3. Nitrile (NBR)

It offers good resistance to oils, solvents, aromatic and aliphatic hydrocarbons, petroleum oils and gasoline. It is not recommended for strong oxidising agents, chlorinated hydrocarbons, ketones and esters.

Temp. Range -50 to 120 deg C.

4. Butyl

It offers excellent resistance to wear and tear and abrasion. Suitable for mild acid and alkali service. It offers little resistance to commercial oils and fuels.

Temp. Range -40 to 150 deg C.

5. Viton

It offers excellent resistance to acids, aliphatic hydrocarbons, oils, and gasoline and corrosive applications. It has excellent resistance to temperature and gas permeability. It is not recommended for amines, esters, steam and low temperature applications.

Temp. Range -20 to 200 deg C.

6. Ethylene Propylenediene (EPDM)

It offers good resistance to heat, steam, strong acids and alkalis. It is not recommended for oil, solvents, and aromatic hydrocarbons.

Temp. Range -50 to 150 deg C.

7. Styrene Butadiene (SBR)

Excellent resistance to abrasion and used for weak acids and moderate chemicals. It is not recommended for strong acids, most hydrocarbons and ozones.

Temp. Range -50 to 120 deg C.

8. Silicone

Excellent high and low temperature properties. It is not recommended for steam and many hydrocarbons.

Temp. Range -70 to 250 deg C.

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