

Sponge Rubber Gaskets based on CR

Composition

- Base polymer : - CR – means an unsaturated polymer resulting from polymerisation of 2-chloro-1.3-butadiene (chloroprene). The moiety of chlorine and double bonds in the polymer-chain and the resulting specific crystallization gradient are the reasons for the special characteristics of CR.
- Fillers : - mixture of natural minerals such as kaolin, talc, whiting
- mixture of „synthetic fillers“ like carbon black, silica especially special mixtures.
- Curing system: : - conventional cross-linking with sulphur and sulphur donor

For applications regarding flammability characteristics are special additives necessary.

Properties

- Specific gravity (DIN 53479 A) : - depending on dimensions
- Deflection of compression (DIN 53577) : - depends on dimensions and compression
- Compression set (DIN 53517) : - depending on compound design and precise testing method in a range from 30 to 90 %
- Mechanical characteristics : - medium tensile strength and strain, medium elasticity

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- Heat resistance : - under static load and related to „fine tuning“ of the compound limited from -30 °C up to +90 °C
- temperature range can be exceeded for short periods
- Ageing resistance : - due to the unsaturation of polymer-chain not as well as EPDM; but, depending on compound design, better protected against influence of light, air, ozone and weather than NR, SBR, NBR
- Storage stability (see also DIN 7716) : - under normal conditions, i.e. at room temperature (at about 20 °C), excluding light and humidity, for several years
- Resistance to chemicals : - in general good resistance to oxidizing media, paraffinic mineral oils, diluted acid, liquor, aqueous salt solutions, silicone oil and refrigerants
- limited resistance to naphtenic mineral oils, low-molecular, aliphatic hydrocarbons and some solvents
- not resistant to aromatic solvents, polar solvents, polychlorinated solvents

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