S1.6.1 GLOBALLY COMPLIANT ELASTOMERS FOR FILTRATION APPLICATIONS

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Elastomers used in filtration applications must be able to withstand a wide variety application conditions. From water filtration, to extreme chemical service, to high temperature autoclave applications, the range of requirements is demanding. It is critical that the seals maintain sealing force in all of these conditions to ensure the integrity of the device. The seals must not only perform in extreme and varied conditions, but they must also conform to one or several global or regional regulatory standards. These regulatory standards cover a broad range of industries and applications, including water, food contact, dairy products, medical, pharmaceutical, etc. In most cases, the global regulatory standards are not harmonized and in some cases may even be contradictory. For devices that are used across multiple industries, such as cartridge filters, the requirement is for the seal to be suitable for all of these application conditions and to have multiple regulatory approvals. To address this issue, materials with compliance to the most relevant global and regional standards have been introduced to the market. These materials can be used globally, simplifying the supply chain for exports worldwide, and assuring regulatory compliance. This provides device manufacturers with a portfolio of materials to choose from for their specific application, without compromise to performance or cost.