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Seals and Gaskets for Unique Applications by [Maria Gini](#)

Article published on March 31st 2012 | [Customer Service](#)

There have been several kinds of improvements on the designs and even applications of seals and gaskets over the years. Most gaskets manufacturers are aware of this and recommend that if you need the seals and gaskets for unique applications, then it is best to customize them. Since the main purpose of seals and gaskets is to allow irregular surfaces to mate in such a manner as to prevent gases and/or fluids to escape; it is highly desirable that they should cover the surface while staying yielding up to a certain degree.

Gasket manufacturers know that some gaskets require an application of sealant directly to the gasket surface to function properly. This is critical in applications where the gasket might have been made of some metal which is not naturally yielding. Many seals and gaskets are produced by cutting from sheet materials, such as gasket paper, rubber, silicone, metal, cork, felt, neoprene, nitrile rubber, fiberglass, felt, polytetrafluoroethylene (otherwise known as PTFE) or a plastic polymer (such as polychlorotrifluoroethylene). Gasket manufacturers recommend a material taking into consideration such parameters as chemical contact, usage, budget, industrial application and physical conditions like temperature.

You need custom mesh gaskets if your applications require limited shielding and environmental sealing, i.e. no sealing at all. On the other hand, custom strip gaskets are required when your applications require heavier shielding, pressure seal and environmental seal. Prevent damage to the gasket from too much compression by using custom strip gaskets made with a central compression stop. A stationary mechanical seal is perfect for projects that involve misaligned connecting machines. Dual mechanical seals and gaskets are used for machines and projects that apply a two-way system. These gaskets can also act as spare seals in emergency cases like an unexpected shutdown or power outage.

Non-standard materials for seals and gaskets are used where necessary, especially if you need properties like flame retardance or anti bacterial effect. If the wrong kind of material is used for seals and gaskets it could severely damage or even ruin your equipment and products. Therefore gasket manufacturers suggest using the kind of material that will greatly improve machine efficiency and save you both time and money in the long run.

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Clifton Rubber is a leading manufacturer of various rubber products, which include a [rubber gaskets](#), a [seals and gaskets](#) and a [rubber mouldings](#).

Article Keywords:

Dock bumpers, anti vibration mounts, loading bay, gaskets manufacturers, seals and gaskets, rubber gaskets, rubber mouldings

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