Gumlast® is 100% pure perfluoroelastomer (FFKM) made from the very same backbone polymer major brands like Kalrez® and Chemraz® are made from. Gumlast® has been tested and benchmarked against leading perfluoroelastomer (FFKM) brands and showed superb properties when exposed to harsh environments.

Utilizing the latest cross-linking and reinforcement techniques, multiple grades have been formulated to optimize the performance of the molded perfluoroelastomer parts in many different applications. Advanced polymer chemistry helps maintain seal integrity, reduce maintenance costs and reduce operating costs while improving safety without compromising quality. Gumlast® perfluoroelastomer parts provide reliable, long-term service with a wide range of aggressive industrial and electronic grade chemicals.

Gumlast® perfluoroelastomer parts are used in highly aggressive chemical processing, semiconductor processing, pharmaceutical, oil exploration, gas exploration, aerospace and petroleum applications. Gumlast® perfluoroelastomer parts are manufactured in the USA in state of the art, highly modernized and ISO 9000 certified production facilities with very high line yield.

Kalrez® is a registered trademark of DuPont Performance Elastomers Chemraz® is a registered trademark of Greene-Tweed Corporation

CRLube is a unique and ultra pure seal lubricant for critical and contamination sensitive applications developed in conjunction with leading lubricant experts. This novel and proprietary fluorinated seal lubricant contains no solid particles of any size or shape. Packaged in moistened wipes, the ultra pure fluorinated seal lubricant upon application and use will leave the sealing assembly within minutes by evaporation. This leaves no residue or powder behind like other typical vacuum greases do.

KRATOS

KRATOS O-RINGS:

Kratos is an Ultra High Performance Elastomer (UHE). Kratos F22 elastomer has been developed and manufactured in USA to close the gap between FKM and FFKM in multiple applications.

INFORMATION ON KRATOS IRS: “Interstitial Reinforcement System” or IRS, Kratos F22 elastomer incorporates fluorinared backbone and nano-fill architecture resulting in maximum service temperatures exceeding 285°C (545°F).

DIFFERENCE BETWEEN KRATOS F22R, KRATOS F22W AND KRATOS F22B: Kratos F22R contains no metals, refractory metals or metal oxides and is ideal for contamination sensitive processes. Kratos F22W is developed for aggressive oxidizers like rocket fuel and O2/O3 rich environments where UV emissions may also be present. Kratos F22B is specially formulated for aggressive chemical and hydrogen processing.

BENEFITS AND VALUE OF KRATOS O-RINGS: Kratos F22 O-rings and custom shaped seals offer outstanding value where FFKM utilization due to high cost could not be justified. Because of low coefficient of thermal expansion, F22 O-rings are drop-in replacements for existing hardware.

"Multiple attempts have been made to close the gap between FKM and FFKM, but majority lack universality of use. A compound that is developed for microelectronics industry would not fare well in hydrocarbon processing. Kratos F22 is the only known gap compound that delivers universality of application” said Fred Pourmirzai, Director of FloDynamix LLC, a div. of NuGenTec.

CRWipe is a unique and ultra pure moistened wipe for critical and contamination sensitive applications. This novel, semi-grade fluorinated wipe contains no solid particles of any size or shape. It is non-flammable, non-toxic and a safe alternative to IPA wipes. It is ideal for final wipe down of chambers and assemblies after wet clean. Due to high evaporation rate, it is well suited for wiping down clean room tables and chairs. Unlike IPA, CRWipe will NOT leave an invisible dry film behind. Tests by leading Semiconductor Capital Equipment Manufacturer have shown that dried IPA film adversely impacts the die yield of processed wafers.