

	Chemraz® Compound	Primary Industry	Primary Uses	Features & Benefits	Service Temperature Range	Chemical Compatibility
<b>Universal Compound</b>	505	Energy Upstream Midstream Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Valves</li> <li>Pump housings</li> <li>Reactors</li> <li>Compressors</li> <li>Sampling/metering equipment</li> <li>Mixers</li> <li>Controls/instrumentation</li> <li>Sprayers/dispensers</li> <li>Coupling</li> </ul>	<ul style="list-style-type: none"> <li>Broad chemical compatibility for use with a wide range of harsh solutions</li> <li>Lower compression set increases ability to handle temp and pressure variations, shaft misalignment, &amp; o-ring shrinkage</li> <li>Low temp capabilities (-22°F/-30°C)</li> </ul>	-30°C to 230°C (-22°F to 446°F)	<ul style="list-style-type: none"> <li>Acids</li> <li>Caustics</li> <li>Aldehydes</li> <li>Esters</li> <li>Ethers</li> <li>Aromatics</li> <li>Hot water/steam</li> <li>Amines</li> <li>Methanol</li> <li>Ketones</li> <li>TBA</li> <li>MTBE</li> </ul>
	555	Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Valves</li> <li>Pump housings</li> <li>Sampling/metering equipment</li> <li>Reactors</li> <li>Quick connect couplings</li> <li>Mixers</li> <li>Controls/instrumentation</li> <li>Compressors</li> <li>Sprayers/dispensers</li> </ul>	<ul style="list-style-type: none"> <li>Superior high temp capability (600°F/316°C)</li> <li>Broad chemical resistance in wide range of media</li> <li>Excellent compression set maintains seal integrity in wide temp &amp; pressure variations as well as vibration</li> <li>Longer &amp; better seal integrity in seal applications lowering equipment life cycle cost</li> </ul>	-12°C to 316°C (10°F to 600°F)	<ul style="list-style-type: none"> <li>Acids</li> <li>Caustics</li> <li>Aldehydes</li> <li>Esters</li> <li>Ethers</li> <li>Aromatics</li> <li>Hot water/steam</li> <li>Amines</li> <li>Methanol</li> <li>Ketones</li> <li>Mixed process streams</li> <li>TBA</li> <li>MTBE</li> </ul>
	605	Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Pump housings</li> <li>Reactors</li> <li>Mixers</li> <li>Valves</li> <li>Compressors</li> <li>Sampling/metering equipment</li> <li>Controls/instrumentation</li> <li>Sprayers/dispensers</li> <li>Diaphragms</li> <li>Couplings</li> </ul>	<ul style="list-style-type: none"> <li>High-temperature capability</li> <li>Excellent compression set resistance</li> <li>Broad chemical compatibility for use with a wide range of harsh solutions</li> </ul>	-20°C to 260°C (-4°F to 500°F)	<ul style="list-style-type: none"> <li>Acids</li> <li>Caustics</li> <li>Aldehydes</li> <li>Esters</li> <li>Ethers</li> <li>Aromatics</li> <li>Hot water/steam</li> <li>Amines</li> <li>Methanol</li> <li>Ketones</li> <li>TBA</li> <li>MTBE</li> </ul>

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	Chemraz® Compound	Primary Industry	Primary Uses	Features & Benefits	Service Temperature Range	Chemical Compatibility
<b>Universal Compound</b>	513	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Door seals</li> <li>• Slit valves</li> <li>• Window seals</li> <li>• Isolator valve seals</li> <li>• Lid seals</li> <li>• Gas inlet seals</li> <li>• KF fitting seals</li> </ul>	<ul style="list-style-type: none"> <li>• Good plasma resistance</li> <li>• Good physical properties</li> <li>• Minimal contamination</li> <li>• Excellent performance history as “universal product”</li> </ul>	-30°C to 210°C (-22°F to 410°F)	
	520	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Door seals</li> <li>• Slit valves</li> <li>• Isolator valve seals</li> <li>• Lid seals</li> <li>• Gas inlet seals</li> <li>• KF fitting seals</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent plasma resistance</li> <li>• Outstanding physical properties</li> <li>• Low contaminants</li> <li>• Withstands higher sealing loads</li> <li>• Excellent performance history in higher temp applications</li> </ul>	-30°C to 240°C (-22°F to 464°F)	
	550	Semiconductor	Aqueous wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Valve seals</li> <li>• Fitting &amp; union seals</li> <li>• Gaskets</li> <li>• Regulator seals</li> <li>• Filter seals</li> </ul>	<ul style="list-style-type: none"> <li>• Good chemical resistance &amp; physical properties</li> <li>• Used where contamination requirements are less critical</li> <li>• Excellent performance history</li> </ul>	-30°C to 210°C (-22°F to 410°F)	
	551	Semiconductor	Aqueous wafer processing equipment and chemical/DI water distribution system seals: <ul style="list-style-type: none"> <li>• Valve seals</li> <li>• Fitting and union seals</li> <li>• Gaskets</li> <li>• Regulator seals</li> <li>• Filter seals</li> <li>• Dispensing seals</li> </ul>	Broad chemical compatibility <ul style="list-style-type: none"> <li>• High-temp capability</li> <li>• Excellent compression set</li> <li>• Breadth of capabilities allows for standardization on one material &amp; reduces inventory line items</li> <li>• Longer &amp; better seal integrity in seal applications; lower overall equipment cost of operation</li> </ul>	-12°C to 316°C (-10°F to 600°F)	

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Universal Compound	592	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Slit valve seals</li> <li>• Lid seals</li> <li>• Endpoint windows</li> <li>• Valve seals</li> <li>• Window seals</li> <li>• Isolator valve seals</li> <li>• Gas inlet seals</li> <li>• Bell jar seals</li> <li>• KF fitting seals</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent physical properties</li> <li>• Inert mineral filler system provides excellent resistance to plasma attack</li> <li>• Good static &amp; dynamic performance</li> </ul>	-30°C to 240°C (-22°F to 464°F)	
	Rapid Gas Decompression Resistance	526	Energy Upstream Midstream Downstream	<ul style="list-style-type: none"> <li>• Pumps</li> <li>• Mechanical seals</li> <li>• Valves</li> <li>• Oilfield completion equipment</li> <li>• Compressors</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent RGD resistance</li> <li>• Broad chemical resistance</li> <li>• Increases mean time between failure</li> <li>• Meets RGD requirements of total GS EP PVV 142 &amp; NACE TM0297</li> </ul>	-20°C to 250°C (-4°F to 482°F)
678		Energy Upstream	<ul style="list-style-type: none"> <li>• Wireline sensors &amp; other fluid-filled tools stored &amp; used in arctic climates &amp; subzero applications</li> <li>• Subsea equipment, including production systems, hydraulic systems, chemical injection systems</li> <li>• Completions systems used in water injection wells</li> <li>• Drilling tools used in deep-water applications</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent RGD resistance</li> <li>• Exceptional performance in extreme low temps</li> <li>• Superior resistance to hostile reservoir chemistries, drilling fluid, production chemicals</li> <li>• Excellent compression set &amp; thermal shock resistance</li> <li>• Meet RGD requirements of ISO 23936-2</li> </ul>	-40°C to 230°C (-40°F to 445°F)	

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Engine Oil/Fuel Systems/Bleed Air/ Specialty Requirements Elastomers	616	Aerospace	Perfluoroelastomer (FFKM) compound where Ultra high-temperature &/or excellent chemical compatibility is required	Meets AMS 7257	0°F to 615°F (-18°C to 324°C)	Virtually impervious to all existing fluids
	618	Aerospace	Perfluoroelastomer (FFKM) compound where Ultra high-temperature &/or excellent chemical compatibility is required	Meets AMS 7257	0°F to 615°F (-18°C to 324°C)	Virtually impervious to all existing fluids
	676	Aerospace	Perfluoroelastomer (FFKM) compound where Ultra high-temperature &/or excellent chemical compatibility is required	Meets AMS 7257E	0°F to 615°F (-18°C to 324°C)	Virtually impervious to all existing fluids
High Temperature	562	Energy Upstream	Downhole oil completion	<ul style="list-style-type: none"> <li>• Excellent compression set resistance</li> <li>• Excellent steam &amp; chemical resistance</li> <li>• Increases mean time between failure</li> </ul>	-12°C to 316°C (-4°F to 482°F)	<ul style="list-style-type: none"> <li>• Steam</li> <li>• Reservoir fluids with high H2S</li> <li>• Caustics</li> <li>• Hot water/steam</li> </ul>
	615	Energy Upstream	<ul style="list-style-type: none"> <li>• Mechanical seals</li> <li>• Process control instruments</li> <li>• Heat exchangers</li> <li>• Valves</li> <li>• Agitators &amp; mixers</li> <li>• Pumps</li> <li>• Coupling</li> </ul>	<ul style="list-style-type: none"> <li>• Low compression set at continuous temps up to 324°C (615°F)</li> <li>• Ability to handle severe thermal cycles, meaning longer life &amp; lower downtime costs</li> <li>• Does not stick at high temperatures</li> <li>• Superior service life in a variety of media, including heat transfer oils</li> <li>• Excellent chemical resistance</li> </ul>	-18°C to 324°C (-4°F to 500°F)	<ul style="list-style-type: none"> <li>• Inorganic &amp; organic chemicals</li> <li>• Acids</li> <li>• Reagents</li> <li>• Heat transfer fluids</li> <li>• Hydrocarbons</li> </ul>

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High Temperature	694	Energy Upstream	<ul style="list-style-type: none"> <li>• Steam assisted gravity drainage (SAG-D) &amp; other enhanced oil recovery (EOR) applications requiring steam injection</li> </ul>	<ul style="list-style-type: none"> <li>• Retains physical properties in hot steam environment</li> <li>• Superior resistance to hostile reservoir chemistries, drilling fluid, additives, &amp; production chemicals</li> <li>• Excellent compression set &amp; thermal shock resistance</li> <li>• Increased reliability of components used in critical steam &amp; high-temp environments</li> </ul>	-12°C to 316°C (10°F to 600°F)	<ul style="list-style-type: none"> <li>• Inorganic &amp; organic chemicals</li> <li>• Acids</li> <li>• Reagents</li> <li>• Heat transfer fluids</li> <li>• Hydrocarbons</li> </ul>
	510	Energy Downstream	<ul style="list-style-type: none"> <li>• Mechanical seals</li> <li>• Valves</li> <li>• Pump housings</li> <li>• Sampling/metering equipment</li> <li>• Reactors</li> <li>• Mixers</li> <li>• Controls/instrumentation</li> <li>• Sprayers/dispensers</li> <li>• Couplings</li> <li>• Compressors</li> </ul>	<ul style="list-style-type: none"> <li>• Broad chemical compatibility for use with a wide range of harsh solutions</li> <li>• Low temp capabilities (-22°F/-30°C)</li> <li>• Higher hardness and density reduces likelihood of gap extrusion</li> </ul>	-30°C to 230°C (-22°F to 446°F)	<ul style="list-style-type: none"> <li>• Acids</li> <li>• Caustics</li> <li>• Aldehydes</li> <li>• Esters</li> <li>• Aromatics</li> <li>• Hot water/steam</li> <li>• Amines</li> <li>• Methanol</li> <li>• Ketones</li> <li>• TBA</li> <li>• MTBE</li> </ul>
Low Temperature	564/566 LT	Energy Upstream	<ul style="list-style-type: none"> <li>• Deepwater drilling tools</li> <li>• Subsea equipment</li> <li>• Completion systems used in water injection wells</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional performance in extreme low temps</li> <li>• Superior resistance to hostile reservoir chemistries</li> <li>• Excellent compression set &amp; thermal shock resistance</li> </ul>	-40°C to 230°C (-40°F to 445°F)	
	656	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Bonded slit valve gates</li> <li>• Chamber seals</li> <li>• Window seals</li> <li>• Gas inlet seals</li> <li>• Lid seals</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent plasma resistance</li> <li>• Soft material for low sealing forces &amp; tolerance stackups</li> <li>• High purity, very low metallic ion content</li> </ul>	-20°C to 232°C (-4°F to 450°F)	
BSV-Deposition/Etch						

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USP VI/FDA	517	Life Science Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Sampling/metering equipment</li> <li>Pump housings</li> </ul>	<ul style="list-style-type: none"> <li>No carbon black residue</li> <li>Low-temp capabilities (-30°C/-22°F)</li> </ul>	-30°C to 220°C (-22°F to 428°F)	
	585	Life Science Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Sampling/metering equipment</li> <li>Pump housings</li> <li>Reactors</li> <li>Mixers</li> <li>Valves</li> <li>Controls/instrumentation</li> <li>Couplings</li> </ul>	<ul style="list-style-type: none"> <li>Superior chemical resistance for use in strong oxidation fluids &amp; hot aqueous solutions as well as chlorine &amp; ozone</li> <li>No carbon black residue</li> </ul>	-30°C to 220°C (-22°F to 428°F)	
	625	Life Science Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Valves</li> <li>Pumps</li> <li>Mixers fermenters</li> <li>Biomedical equipment</li> <li>Couplings</li> <li>Filters</li> <li>Dryers</li> <li>Agitators</li> <li>Sanitary seals</li> <li>WFI gaskets</li> </ul>	<ul style="list-style-type: none"> <li>Superior high-temperature properties</li> <li>Outstanding hot water &amp; steam resistance</li> <li>3-A® &amp; FDA compliant, meeting the highest purity standards</li> </ul>	-20°C to 260°F (-4°F to 500°F)	<ul style="list-style-type: none"> <li>Fuel handling</li> <li>CIP/SIP operations</li> <li>Pharmaceutical manufacturing</li> </ul>
Wet Applications	570	Semiconductor	Aqueous wafer processing equipment seals: <ul style="list-style-type: none"> <li>Valve seals</li> <li>Fitting &amp; union seals</li> <li>Gaskets</li> <li>Regulator seals</li> <li>Filter seals</li> <li>Dispensing seals</li> </ul>	<ul style="list-style-type: none"> <li>Very low contaminants</li> <li>Extended performance &amp; added reliability</li> <li>Good physical properties</li> <li>Excellent performance history</li> </ul>	-30°C to 210°C (-22°F to 410°F)	<ul style="list-style-type: none"> <li>Acids</li> <li>Solvents</li> <li>Ultrapure H2O</li> </ul>
	571	Semiconductor	Aqueous wafer processing equipment seals: <ul style="list-style-type: none"> <li>Valve seals</li> <li>Fitting &amp; union seals</li> <li>Gaskets</li> <li>Regulator seals</li> <li>Filter seals</li> <li>Dispensing seals</li> </ul>	<ul style="list-style-type: none"> <li>Very low contaminants</li> <li>Extended performance &amp; added reliability</li> <li>Good physical properties</li> <li>Excellent performance history</li> </ul>	-30°C to 210°C (-22°F to 410°F)	<ul style="list-style-type: none"> <li>Acids</li> <li>Solvents</li> <li>Ultrapure H2O</li> </ul>

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Clean-Deposition/Etch	629	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Slit valve seals</li> <li>• Lid seals</li> <li>• Endpoint windows</li> <li>• Valve seals</li> <li>• Window seals</li> <li>• Isolator valve seals</li> <li>• Gas inlet seals</li> <li>• Bell jar seals</li> <li>• KF fitting seals</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional plasma resistance in oxygen &amp; fluorine environments</li> <li>• Minimal particulation &amp; surface degradation</li> <li>• High purity, very low metallic ion content</li> <li>• High elasticity allows conformance to hardware &amp; easier seal installation</li> </ul>	-20°C to 260°C (-4°F to 500°F)	
	639	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Endpoint windows</li> <li>• Bell jar seals</li> <li>• Valve seals</li> <li>• KF fitting seals</li> <li>• Window seals</li> <li>• Isolator valve seals</li> <li>• Lid seals</li> <li>• Gas inlet seals</li> <li>• Slit valve seals</li> <li>• Chamber seals</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional plasma resistance in oxygen &amp; fluorine environments</li> <li>• Minimal particulation &amp; surface degradation</li> <li>• High purity, very low metallic ion content</li> </ul>	-20°C to 260°C (-4°F to 500°F)	
	640	Semiconductor	Wet and dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Endpoint windows</li> <li>• Valve seals</li> <li>• Isolator valve seals</li> <li>• Lid Seals</li> <li>• Gas inlet/outlet seals</li> <li>• Slit valve seals</li> <li>• Chamber seals</li> <li>• Gasket seals</li> <li>• Dispensing seals</li> <li>• Regulator seals</li> <li>• Filler seals</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional plasma resistance in oxygen &amp; fluorine environments</li> <li>• Minimal particulation &amp; surface degradation</li> <li>• High purity, very low metallic ion content</li> <li>• Extended performance &amp; added reliability in wet/dry applications</li> </ul>	-20°C to 290°C (-4°F to 554°F)	

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<b>Clean-Deposition</b>	547	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Lid seals</li> <li>• Endpoint windows</li> <li>• Gas inlet/outlet seals</li> <li>• Chamber seals</li> <li>• Valve seals</li> <li>• Slit valve seals</li> <li>• Isolation valve seals</li> <li>• Gasket seals</li> <li>• Dispersing seals</li> <li>• Regulator seals</li> <li>• Filler seals</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional plasma resistance in fluorine environments</li> <li>• Minimal particulation &amp; surface degradation</li> <li>• High purity, very low metallic ion content</li> <li>• Excellent compression set for repeated use</li> </ul>	Max service temperature: 300°C (572°F)	
	XRZ	Semiconductor	NF3 plasma cleaning equipment seals: <ul style="list-style-type: none"> <li>• Chamber seals</li> <li>• Endpoint windows</li> <li>• Gas inlet/outlet seals</li> <li>• Gate valve seals</li> <li>• Isolator valve seals</li> <li>• Reactant delivery system seals</li> <li>• Reaction chamber lid seals</li> <li>• Slit valve seals</li> </ul>	<ul style="list-style-type: none"> <li>• Outstanding plasma resistance in highly corrosive fluorine environments with minimal seal degradation</li> <li>• Excellent surface resistance for minimal particulation &amp; sealing integrity</li> <li>• High purity for minimal contamination risk</li> <li>• Minimal compression set at elevated temps ensures seal integrity</li> <li>• Extended equipment uptime with added reliability in dry applications</li> </ul>	Max service temperature: 300°C (572°F)	

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Clean Etch	657	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Endpoint windows</li> <li>• Bell jar seals</li> <li>• Valve seals</li> <li>• KF fitting seals</li> <li>• Window seals</li> <li>• Isolator valve seals</li> <li>• Lid seals</li> <li>• Gas Inlet seals</li> <li>• Slit valve seals</li> <li>• Chamber seals</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent plasma resistance in a variety of aggressive chemical environments</li> <li>• Minimal particulation</li> <li>• Withstands high service temps up to 280°C (536°F) with excursions to 300°C (572°F)</li> </ul>	-18°C to 324°C (0°F to 615°F)	
	E38	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Bonded gate seals</li> <li>• Chamber seals</li> </ul>	<ul style="list-style-type: none"> <li>• Minimal contamination</li> <li>• Withstands a variety of aggressive chemicals</li> <li>• Excellent physical properties</li> <li>• Low metal ion content</li> <li>• Unlimited design flexibility</li> </ul>	-20°C to 260°C (-4°F to 500°F)	
	XPE-HP	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Chamber and slit valve seals</li> <li>• Endpoint windows</li> <li>• Gas inlet/outlet seals</li> <li>• Gate and isolator valve seals</li> <li>• Reactant delivery system seals</li> <li>• Reaction chamber lid seals</li> </ul>	<ul style="list-style-type: none"> <li>• High UV &amp; ozone resistance enables next generation process technology insertions</li> <li>• Superior O2 plasma resistance results in improved product integrity</li> <li>• High temp capability</li> <li>• Reduced erosion &amp; particulation</li> <li>• Decreased maintenance &amp; replacement requirements</li> <li>• Excellent compression set</li> </ul>	Max service temperature: 255°C (491°F)	<ul style="list-style-type: none"> <li>• O2 plasma</li> <li>• Ozone</li> <li>• Fluorine-based plasmas</li> </ul>
	XPE	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Chamber &amp; slit valve seals</li> <li>• Endpoint windows</li> <li>• Gas inlet/outlet seals</li> <li>• Gate and isolator valve seals</li> <li>• Reactant delivery system seals</li> <li>• Reaction chamber lid seals</li> </ul>	<ul style="list-style-type: none"> <li>• High temperature capability enables future technology &amp; next generation applications</li> <li>• Superior O2 plasma resistance resulting in improved product integrity</li> <li>• High CF4 plasma resistance</li> <li>• Reduced product weight loss</li> <li>• Decreased maintenance &amp; replacement requirements</li> <li>• Excellent compression set performance</li> </ul>	Max service temperature: 280°C (536°F)	<ul style="list-style-type: none"> <li>• Fluorine-based plasmas</li> </ul>

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10/17-GT BR-US-GT-000

Chemraz® Compound	Primary Industry	Primary Uses	Features & Benefits	Service Temperature Range	Chemical Compatibility
504	Energy Upstream Midstream Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Valves</li> <li>Pump housings</li> <li>Sampling/metering equipment</li> <li>Reactors</li> <li>Mixers</li> <li>Controls/instrumentation</li> <li>Sprayers/dispensers</li> <li>Couplings</li> </ul>	<ul style="list-style-type: none"> <li>Broad chemical compatibility for use with wide range of harsh solutions</li> <li>Lower compression set increases ability to handle temp &amp; pressure variations, shaft misalignment, &amp; o-ring shrinkage</li> <li>Low temp capabilities (-22°F/-30°C)</li> </ul>	-30°C to 230°C (-22°F to 446°F)	Acids: <ul style="list-style-type: none"> <li>Caustics</li> <li>Aldehydes</li> <li>Esters</li> <li>Aromatics</li> <li>Hot water/steam</li> <li>Amines</li> <li>Methanol</li> <li>Ketones</li> <li>TBA</li> <li>MTBE</li> </ul>
514	Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Valves</li> <li>Pump housings</li> <li>Reactors</li> <li>Mixers</li> <li>Sprayers/dispensers</li> <li>Couplings</li> </ul>	<ul style="list-style-type: none"> <li>No carbon black residue</li> <li>Low-temp capabilities (-30°C/-22°F)</li> </ul>	-30°C to 220°C (-22°F to 428°F)	
554/546 LT (80/90 durometer)	Energy Downstream	<ul style="list-style-type: none"> <li>Compressors</li> <li>Valves</li> <li>Pumps</li> <li>Mechanical seals</li> </ul>	<ul style="list-style-type: none"> <li>Exceptional performance in extreme low temps enables use in increasingly harsh environments</li> <li>Excellent compression set &amp; thermal shock resistance allow for a wide application range</li> </ul>	-18°C to 324°C (-4°F to 500°F)	
584	Energy Downstream	<ul style="list-style-type: none"> <li>Mechanical seals</li> <li>Sampling/metering equipment</li> <li>Pump housings</li> </ul>	<ul style="list-style-type: none"> <li>Superior chemical resistance for use in strong oxidation fluids &amp; hot aqueous solutions as well as chlorine &amp; ozone</li> <li>No carbon black residue</li> </ul>	-30°C to 220°C (-22°F to 428°F)	

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	Chemraz® Compound	Primary Industry	Primary Uses	Features & Benefits	Service Temperature Range	Chemical Compatibility
	600	Energy Downstream	<ul style="list-style-type: none"> <li>• Mechanical seals</li> <li>• Pump housings</li> <li>• Reactors</li> <li>• Mixers</li> <li>• Valves</li> <li>• Compressors</li> </ul>	<ul style="list-style-type: none"> <li>• High durometer &amp; high-density material helps withstand high pressure &amp; harsh environments</li> <li>• Broad chemical resistance range</li> <li>• High-temperature capability</li> </ul>	-30°C to 230°C (-22°F to 446°F)	
	543	Semiconductor	Dry wafer processing equipment seals: <ul style="list-style-type: none"> <li>• Door seals</li> <li>• Slit valves</li> <li>• Window seals</li> <li>• Isolator valve seals</li> <li>• Lid seals</li> <li>• Gas inlet seals</li> <li>• KF fitting seals</li> </ul>	<ul style="list-style-type: none"> <li>• Good plasma resistance</li> <li>• Good physical properties</li> <li>• Minimal contamination</li> <li>• Excellent performance as a “universal product”</li> </ul>	-30°C to 210°C (-22°F to 410°F)	

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