#### Suggested flange Isolation material compatibility chart

Medium Retainer Seal Seeve Washer Temp. Range F Temp. Range C   Acctone Phenolic EPDM Nylon/Mylar Phenolic 65 to +220 0. to +27   Air EP-3 Nitrile Nylon/Mylar EP-3 65 to +220 -54 to +104   Ammonia Ony EP-3 Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Ammonia (Wei) EP-3 Teflon Nylon/Mylar EP-3 -452 to +100 0. to +38   Blach EP-3 Teflon Nylon/Mylar EP-3 32 to +100 0. to +66   Carbon Dixokide EP-3 Teflon Nylon/Mylar EP-3 -54 to +107   Carbon Dixokide EP-3 Teflon Nylon/Mylar EP-3 -32 to +100 0. to +38   Ethnylon EP-3 Teflon Nylon/Mylar EP-3 -20 to +20 -54 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +121   Gas, Nature EP-3							
Air EP-3 Nitrile Nytor/Mytar Phenolic 465 to +225 4.54 to +107   Ammonia Dry EP-3 Tefton Nytor/Mytar EP-3 4.55 to +220 4.54 to +104   Ammonia (Wet) EP-3 Tefton Nytor/Mytar EP-3 4.52 to +100 0 to +38   Bleach EP-3 Tefton Nytor/Mytar EP-3 +32 to +100 0 to +38   Carbon Dioxide EP-3 Tefton EP-3 4.32 to +100 0 to +38   Carbon Dioxide EP-3 Tefton Nytor/Mytar EP-3 4.52 to +100 0 to +38   Ethanol EP-3 Tefton Nytor/Mytar EP-3 4.52 to +100 0 to +28   Ethylene (Ethene) EP-3 Tefton Nytor/Mytar EP-3 4.52 to +20 -54 to +104   Gas, Nature EP-3 Tefton Nytor/Mytar EP-3 -20 to +220 -54 to +104   Gas, Sour EP-3 Viton/Tefton Nytor/Mytar EP-3 -20 to +220 -54 to +107   Hydrogen <t< th=""><th>Medium</th><th>Retainer</th><th>Seal</th><th>Sleeve</th><th>Washer</th><th>Temp. Range F</th><th>Temp. Range C</th></t<>	Medium	Retainer	Seal	Sleeve	Washer	Temp. Range F	Temp. Range C
Ammonia Dry EP-3 Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Ammonia (Wet) EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Bleach EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Carbon Dioxide EP-3 Teflon EP-3 EP-3 +32 to +100 0 to +38   Carbon Dioxide EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Castis God (NaOH) EP-3 Teflon Nylon/Mylar EP-3 -300 to +280 -184 to +138   Ethanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethere) EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -20 to +225 -29 to +207 <td< td=""><td>Acetone</td><td>Phenolic</td><td>EPDM</td><td>Nylon/Mylar</td><td>Phenolic</td><td>+32 to +80</td><td>0 to +27</td></td<>	Acetone	Phenolic	EPDM	Nylon/Mylar	Phenolic	+32 to +80	0 to +27
Ammonia (Wet) EP-3 Teflo Nylon/Mylar EP-3 +32 to +100 0 to +38   Bleach EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Garbon Dioxide EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Carbon Dioxide EP-3 Teflon Nylon/Mylar EP-3 +32 to +150 0 to +66   Caustic Sod (NaCH) EP-3 Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Cryogenic EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Gas, Nature EP-3 Viton/Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -65 to +225 -20 to +20 -54 to +107   Hydrogen EP-3 Teflon/Viton Nylon/Mylar EP-3 -65 to +225 -20	Air	EP-3	Nitrile	Nylon/Mylar	Phenolic	-65 to +225	-54 to +107
Bleach EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 0 to +27   Butylene (Butidien) EP-3 Teflon EP-3 H32 to +100 0 to +38   Carbon Dioxide EP-3 Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   Carbon Dioxide EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Caustic Sod (NaOH) EP-3 Teflon Nylon/Mylar EP-3 -300 to +280 -184 to +138   Ethanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 0 to +27   Fuel Oil EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -30 to 100 -184 to +38   Marcaptan	Ammonia Dry	EP-3	Teflon	Nylon/Mylar	EP-3	-65 to +220	-54 to +104
Butylene (Butidiene) EP-3 Tefion EP-3 EP-3 +32 to +100 0 to +38   Carbon Dioxide EP-3 Nitrile Nylon/Mylar EP-3 +32 to +150 0 to +66   Caustic Sod (NaOH) EP-3 Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Cryogenic EP-3 Teflon EP-3 -300 to +280 -184 to +138   Ethanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -56 to +220 -54 to +104   Gass, Sour EP-3 Viton/Teflon Nylon/Mylar EP-3 -56 to +225 -54 to +104   Gass, Sour EP-3 Nitrile Nylon/Mylar EP-3 -56 to +225 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -20 to +225 -29 to +27   Hydrogen	Ammonia (Wet)	EP-3	Teflo	Nylon/Mylar	EP-3	+32 to +100	0 to +38
Carbon Dioxide EP-3 Nitrile Nylon/Mylar EP-3 +32 to +150 0 to +66   Caustic Sod (NaOH) EP-3 Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Cryogenic EP-3 Teflon EP-3 EP-3 -300 to +280 -184 to +138   Ethnanol EP-3 Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Sour EP-3 Viton/Teflon Nylon/Mylar EP-3 -56 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -56 to +220 -54 to +101   Jef Fuel EP-3 Teflon Nylon/Mylar EP-3 -20 to +225 -29 to +107   LMG EP-3 Teflon/Viton Nylon/Mylar EP-3 -20 to +280 -29 to +127	Bleach	EP-3	Teflon	Nylon/Mylar	EP-3	+32 to +80	0 to +27
Caustic Sod (NaOH) EP-3 Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Cryogenic EP-3 Teflon EP-3 EP-3 -300 to +280 -184 to +138   Ethanol EP-3 Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Sour EP-3 Viton/Teflon Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Hydrogen EP-3 Viton/Teflon Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -20 to +22 -29 to +107   LNG EP-3 Teflon Nylon/Mylar EP-3 -20 to +20 -22 to +407	Butylene (Butidiene)	EP-3	Teflon	EP-3	EP-3	+32 to +100	0 to +38
Cryogenic EP-3 Teflon EP-3 EP-3 -300 to +280 -184 to +138   Ethanol EP-3 Nitrile Nylor/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +27   Fuel Oil EP-3 Viton/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Viton/Teflon Nylon/Mylar EP-3 -66 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -66 to +220 -54 to +104   Gasoline EP-3 Nitrile Nylon/Mylar EP-3 -65 to +220 -54 to +107   Lydropen EP-3 Nitrile Nylon/Mylar EP-3 -20 to +20 -29 to +107   LGG EP-3 Teflon Nylon/Mylar EP-3 -20 to +20 -29 to +121   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +27   MtBe	Carbon Dioxide	EP-3	Nitrile	Nylon/Mylar	EP-3	+32 to +150	0 to +66
Ethanol EP-3 Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   Ethylene (Ethene) EP-3 Teffon Nylon/Mylar EP-3 +32 to +80 0 to +27   Fuel Oil EP-3 Viton/Teffon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -65 to +220 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -20 to +225 -29 to +177   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -20 to +25 -29 to +27   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +25 -29 to +27   Nitrogen EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 10 to +27   Nitrogen	Caustic Sod (NaOH)	EP-3	Teflon	Nylon/Mylar	EP-3	-65 to +225	-54 to +107
Ethylene (Ethene) EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 0 to +27   Fuel Oil EP-3 Viton/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton Nylon/Mylar EP-3 -20 to +225 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -20 to +225 -29 to +138   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +27   Methanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen	Cryogenic	EP-3	Teflon	EP-3	EP-3	-300 to +280	-184 to +138
Fuel Oil EP-3 Viton/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton Nylon/Mylar EP-3 -65 to +220 -54 to +104   Gasoline EP-3 Nitrile Nylon/Mylar EP-3 -65 to +225 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -65 to +225 -29 to +107   LNG EP-3 Teflon Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon Nylon/Mylar EP-3 -300 to +100 -164 to +38   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3 Teflon Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-	Ethanol	EP-3	Nitrile	Nylon/Mylar	EP-3	+32 to +100	0 to +38
Gas, Nature EP-3 Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -65 to +225 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -65 to +225 -54 to +107   Jet Fuel EP-3 Nitrile Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -20 to +80 -29 to +27   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3 Pifon EP-3 EP-3 -20 to +280 -29 to +138   Oxygen <td< td=""><td>Ethylene (Ethene)</td><td>EP-3</td><td>Teflon</td><td>Nylon/Mylar</td><td>EP-3</td><td>+32 to +80</td><td>0 to +27</td></td<>	Ethylene (Ethene)	EP-3	Teflon	Nylon/Mylar	EP-3	+32 to +80	0 to +27
Gas, Sour EP-3 Viton Nylon/Mylar EP-3 -20 to +220 -54 to +104   Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -65 to +225 -54 to +121   Jet Fuel EP-3 Viton Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -20 to +225 -29 to +107   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +80 -29 to +27   Methanol EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +22 to +80 0 to +27   Nitrogen EP-3 Vitono/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane	Fuel Oil	EP-3	Viton/Teflon	Nylon/Mylar	EP-3	-20 to +280	-29 to +138
Gasoline EP-3 Viton/Teflon Nylon/Mylar EP-3 -65 to +225 -54 to +107   Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -65 to +250 -54 to +121   Jet Fuel EP-3 Viton Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -300 to +100 -184 to +38   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -300 to +100 -0 to +38   MTBE EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3 Vitone/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon EP-3 EP-3 -65 to -250 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3	Gas, Nature	EP-3	Teflon	Nylon/Mylar	EP-3	-65 to +220	-54 to +104
Hydrogen EP-3 Nitrile Nylon/Mylar EP-3 -65 to +250 -54 to +121   Jet Fuel EP-3 Viton Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -300 to +100 -184 to +38   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +80 -29 to +27   Methanol EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon RP-3 EP-3 -65 to -250 -54 to +104   Oil, Crude EP-3 Teflon EP-3 EP-3 432 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propylene <	Gas, Sour	EP-3	Viton	Nylon/Mylar	EP-3	-20 to +220	-54 to +104
Jet Fuel EP-3 Viton Nylon/Mylar EP-3 -20 to +225 -29 to +107   LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -300 to +100 -184 to +38   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +80 -29 to +27   Methanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3 Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon Nylon/Mylar EP-3 -65 to -250 -54 to +104   Oil, Crude EP-3 Teflon EP-3 #32 to +80 0 to +27   Propane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Swage EP-3 Teflon	Gasoline	EP-3	Viton/Teflon	Nylon/Mylar	EP-3	-65 to +225	-54 to +107
LNG EP-3 Teflon/Viton Nylon/Mylar EP-3 -300 to +100 -184 to +38   Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +80 -29 to +27   Methanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Oil, Crude EP-3/Phenolic Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Oxygen EP-3 Vitone/Teflon Nylon/Mylar EP-3 -66 to -250 -54 to +104   Oxygen EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Steam EP-	Hydrogen	EP-3	Nitrile	Nylon/Mylar	EP-3	-65 to +250	-54 to +121
Marcaptan EP-3 Teflon Nylon/Mylar EP-3 -20 to +80 -29 to +27   Methanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Oxygen EP-3 Vitone/Teflon Nylon/Mylar EP-3 -65 to +220 -54 to +104   Oxygen EP-3 Teflon EP-3 EP-3 -65 to -250 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Swage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Swage EP-3 Viton	Jet Fuel	EP-3	Viton	Nylon/Mylar	EP-3	-20 to +225	-29 to +107
Methanol EP-3 Teflon Nylon/Mylar EP-3 +32 to +100 0 to +38   MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3 +20 to +280 -54 to +104   Oil, Crude EP-3 Vitone/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon EP-3 EP-3 -65 to +220 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Repr3 EP-3 +32 to +80 0 to +27   Steam EP-3 Teflon Nomex G-7 to +280 -29 to +138   Steam EP-3 Tefl	LNG	EP-3	Teflon/Viton	Nylon/Mylar	EP-3	-300 to +100	-184 to +38
MTBE EP-3 Special Nitrile Nylon/Mylar EP-3 +32 to +80 0 to +27   Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3/Phenolic -65 to +220 -54 to +104   Oil, Crude EP-3 Vitone/Teffon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon EP-3 EP-3 -65 to -250 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 -65 to 250 -54 to +121   Propane EP-3 Mitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Swage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Swage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Swage EP-3 Teflon <td>Marcaptan</td> <td>EP-3</td> <td>Teflon</td> <td>Nylon/Mylar</td> <td>EP-3</td> <td>-20 to +80</td> <td>-29 to +27</td>	Marcaptan	EP-3	Teflon	Nylon/Mylar	EP-3	-20 to +80	-29 to +27
Nitrogen EP-3/Phenolic Nitrile Nylon/Mylar EP-3/Phenolic -65 to +220 -54 to +104   Oil, Crude EP-3 Vitone/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon EP-3 EP-3 -65 to -250 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 -20 to +280 -29 to +138   Spent Liquor EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-7 to +450 to +200   Styrene EP-3 Teflon Nom	Methanol	EP-3	Teflon	Nylon/Mylar	EP-3	+32 to +100	0 to +38
Oil, Crude EP-3 Vitone/Teflon Nylon/Mylar EP-3 -20 to +280 -29 to +138   Oxygen EP-3 Teflon EP-3 EP-3 -65 to -250 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +100 0 to +38   Steam EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-3 to +392 to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-	MTBE	EP-3	Special Nitrile	Nylon/Mylar	EP-3	+32 to +80	0 to +27
Oxygen EP-3 Teflon EP-3 EP-3 -65 to -250 -54 to +121   Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Sewage EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Steam EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-7 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32	Nitrogen	EP-3/Phenolic	Nitrile	Nylon/Mylar	EP-3/Phenolic	-65 to +220	-54 to +104
Pentane EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 -20 to +280 -29 to +138   Spent Liquor EP-3 Teflon Nomex G-7 to +450 to +323   Steam EP-3 Teflon Nomex G-7 to +450 to +220   Steam EP-3 Teflon Nomex G-3 to +392 to +200   Steam Yellow/Jacket No seal Nomex G-7/G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3	Oil, Crude	EP-3	Vitone/Teflon	Nylon/Mylar	EP-3	-20 to +280	-29 to +138
Propane EP-3 Nitrile or Teflon EP-3 EP-3 +32 to +80 0 to +27   Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 -20 to +280 -29 to +138   Spent Liquor EP-3 Teflon EP-3 EP-3 +32 to +100 0 to +23   Steam EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-3 to +392 to +200   Steam EP-3 Teflon Nomex G-7/G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3	Oxygen	EP-3	Teflon	EP-3	EP-3	-65 to -250	-54 to +121
Propylene EP-3 Viton EP-3 EP-3 +32 to +80 0 to +27   Sewage EP-3 Viton Nylon/Mylar EP-3 -20 to +280 -29 to +138   Spent Liquor EP-3 Teflon EP-3 EP-3 +32 to +100 0 to +27   Steam EP-3 Teflon Nomex EP-3 +32 to +100 0 to +38   Steam EP-3 Teflon Nomex G-7 to +450 to +202   Steam EP-3 Teflon Nomex G-3 to +450 to +203   Steam EP-3 Teflon Nomex G-3 to +450/(+392) to +206/(+200)   Steam Yellow/Jacket No seal Nomex G-7/G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3	Pentane	EP-3	Teflon	EP-3	EP-3	+32 to +80	0 to +27
Sewage EP-3 Viton Nylon/Mylar EP-3 -20 to +280 -29 to +138   Spent Liquor EP-3 Teflon EP-3 EP-3 +32 to +100 0 to +38   Steam EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-3 to +392 to +200   Steam Yellow/Jacket No seal Nomex G-7(G-3 to +450(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +280 0 to +138   Mater (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +79 to +121   Water (Portable) EP-3 Nitrile EP-3/Phenol	Propane	EP-3	Nitrile or Teflon	EP-3	EP-3	+32 to +80	0 to +27
Spent Liquor EP-3 Tefton EP-3 FP-3 +32 to +100 0 to +38   Steam EP-3 Tefton Nomex G-7 to +450 to +232   Steam EP-3 Tefton Nomex G-7 to +450 to +232   Steam EP-3 Tefton Nomex G-3 to +392 to +200   Steam Yellow/Jacket No seal Nomex G-7(G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Tefton EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Tefton EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Tefton EP-3 EP-3 +32 to +280 0 to +166   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +170 to +121   Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Propylene	EP-3	Viton	EP-3	EP-3	+32 to +80	0 to +27
Steam EP-3 Teflon Nomex G-7 to +450 to +232   Steam EP-3 Teflon Nomex G-3 to +392 to +200   Steam Yellow/Jacket No seal Nomex G-7 to +450 to +200   Steam Yellow/Jacket No seal Nomex G-7/G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +150 0 to +66   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +79 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Sewage	EP-3	Viton	Nylon/Mylar	EP-3	-20 to +280	-29 to +138
Steam EP-3 Teflon Nomex G-3 to +392 to +200   Steam Yellow/Jacket No seal Nomex G-7/G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +150 0 to +66   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic +32 to +250 0 to +121	Spent Liquor	EP-3	Teflon	EP-3	EP-3	+32 to +100	0 to +38
Steam Yellow/Jacket No seal Nomex G-7/G-3 to +450/(+392) to +268/(+200)   Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +150 0 to +66   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +79 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Steam	EP-3	Teflon	Nomex	G-7	to +450	to +232
Styrene EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +80 0 to +27   Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +150 0 to +66   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +79 to +121   Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Steam	EP-3	Teflon	Nomex	G-3	to +392	to +200
Sulphur (Molten) EP-3 Teflon EP-3 EP-3 +32 to +280 0 to +138   Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +150 0 to +66   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +79 to +121   Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Steam	Yellow/Jacket	No seal	Nomex	G-7/G-3	to +450/(+392)	to +268/(+200)
Totulene EP-3 Viton or Teflon EP-3 EP-3 +32 to +150 0 to +66   Water (Hot) EP-3 Nitrile EP-3 EP-3 +175 to +150 +79 to +121   Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Styrene	EP-3	Teflon	EP-3	EP-3	+32 to +80	0 to +27
Water (Hot) EP-3 EP-3 EP-3 +175 to +150 +79 to +121   Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Sulphur (Molten)	EP-3	Teflon	EP-3	EP-3	+32 to +280	0 to +138
Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Totulene	EP-3	Viton or Teflon	EP-3	EP-3	+32 to +150	0 to +66
Water (Portable) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121   Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Water (Hot)	EP-3	Nitrile	EP-3	EP-3	+175 to +150	+79 to +121
Water (Sea) EP-3 Nitrile EP-3/Phenolic EP-3/Phenolic +32 to +250 0 to +121	Water (Portable)	EP-3	Nitrile	EP-3/Phenolic	EP-3/Phenolic		0 to +121
		EP-3	Nitrile		EP-3/Phenolic	+32 to +250	0 to +121
WINELIQUUI   EF-3   IUIUII   EF-3   EF-3   TOUTO +280   +27 TO +138	White Liquor	EP-3	Teflon	EP-3	EP-3	+80 to +280	+27 to +138

# Important Note:

The foregoing performance data are intended as guidelines only The user should determine performance suitability for any specific applications. Variation in temperature, pressure, and concentration of mixtures acting synergistically may preclude suggested service use

For pipe diameters over 24" or ANSI Class pressure rating of 600# or greater, use EP-3 sleeves and EP-3 where temp and other washers conditions permit. Material selection is the sole risk of the user



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# **Nuseal Insulating Gasket Kit**

Flange insulated gasket kits isolate and block the flow of electric current and also seals the system from leakages. Flange the most common trouble area needed to be sealed to prevent the leakages of carrier system and also prevents the leakage of current, which causes undue corrosion and electric break down of metal.

Nupros Inc. manufactures and supply quality insulating gaskets products, which can provide sealing, isolation and insulation saving integrity of pipeline. Nupros Inc. Manufacturers Various types of Insulated gaskets.

# Full Faced / Type E Gaskets :

These gaskets are with same dimension with precise cut bolt dia and PCD. This facilities proper alignment of gaskets during installation.

These full faced gaskets is available in phenolic, Nema G 10 / 11 in combination of PTFE, VITON, NEOPRENE, NITRILE sealing rings. Manufacturing Ranges: 1/2"-144"





#### **Raised Faced / Type F Gaskets :**

These gaskets are made to fit in raised face portion of flange. These can be used in raised face or full face flanges. these are available in same material as TYPE-E, with combination of PTFE, VITON, NEOPRENE, NITRILE sealing rings. Manufacturing Ranges : 1/2 "- 144"

**RTJ / TYPE - D Gaskets :** Type - D Gaskets are design to fit in RTJ flange joints. these gaskets are available in Phenolic, Nema G10/11 Manufacturing Ranges : 1/2"-24"





SS Core with spring energized PTFE /Viton seal rings :

Nuseal SS core insulating kits are suitable for all services with pressure class upto ANSI 2500. Its unique pressure activated sealing requires less torque to seal . These are reusable gasket too. The MOC of core is SS 316/L, Monel, Inconell, Super duplex. Manufacturing range - 1/2" to 44 "

### **High Temepreture Insulating Gaskets :**

NUSEAL High temperature insulating gasket can with stand temp. upto 750 Deg. C. The material of construction is vermiculite offered in type E & F.

The Insulating Sleeves and Washers are made of Mica "HIGHTHERM" Manufacturing Ranges : 1/2 "- 32"



### Insulating sleeves :

Insulating sleeves are manufactured in following materials, maylar, Nema g10, Nema g11, Phenolic, Nomex Mica, PTFE. Insulating sleeves are available for bolt size 1/2" to 21/2" and in metric size too.

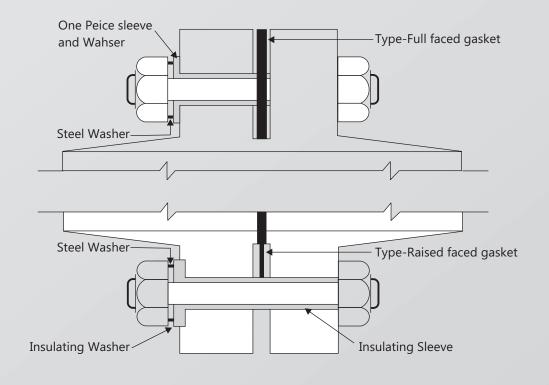


# Insulating washers :

Insulating washers are manufactured in following materials, Phenolic, Nema g10, Nema g11, Mica, These are available firm 1/2" to 21/2" bolt size and in metric size too.

The figure shows general Idea of Installation. One can use sleeve / Washers or one piece sleeve washer arrangement in insulating kits.

Nupros Inc. offers inspection at any stage with destructive and non destructive testing facility available at our end. Hydro testing facilities to test most of the range is available with all inspection test facilities.





# One Piece Insulating sleeve and washer :

These are molded form Maylar, polyethylene, Minlon, available in size from 1/2" to 2" and in metric sizes too. These can be used in single or double washers assembly.





# Installation Procedure : (as Per Fig.1)

Any Combination of material as per customers standard can be ordered.

#### Inspection :