

Fluid Compatibility Guide



The following body material and seal compound chart is presented as a guide only and is not intended to provide a specific recommendation as to the suitability of any Foster product for a specific application. Various other environmental and operating conditions must be considered. These items include, but are not limited to, operating temperatures, ambient conditions and any prevailing standards or regulations.

BODY MATERIAL DATA	
Body Material	
Brass	B
Steel	S
303 S/S	S/S

SEAL COMPOUND DATA		
Seal Material	Part No. Suffix	Coupler Color Code
Nitrile (Buna-N)	Std.	None
Viton® (product of DuPont)	-101	Blue
Neoprene	-102	Red
Ethylene Propylene	-103	Black
Silicone	-104	White

MEDIA	BODY MATERIAL	SEAL COMPOUND	MEDIA	BODY MATERIAL	SEAL COMPOUND	MEDIA	BODY MATERIAL	SEAL COMPOUND
Acetic Acid (5%)	S/S	-101	Helium	B, S, S/S	Std.	Potassium Acetate	S	-103
Acetone	B, S/S	-103	Heptane	B, S, S/S	Std.	Potassium Dichromate	S	Std.
Acetophenone	S/S	-103	Hydraulic Oil (Petroleum Base)	B, S, S/S	Std.	Potassium Nitrate	S, S/S	Std.
Acetylene	S/S	Std.	Hydraulic Oil (Water Base)	S, S/S	-103	Potassium Sulfate	S/S	Std.
Air (up to 200° F)	B, S/S	Std.	Hydrazine	S/S	-103	Propane	B, S/S	Std.
Air (up to 400° F)	B, S/S	-101, -104	Hydrogen Gas	B, S, S/S	Std.	Propyl Alcohol	B, S, S/S	Std.
Ammonia (Anhydrous)	S/S	-102	Isobutyl Alcohol	S/S	-101	Propylene	B, S, S/S	-101
Ammonia (Cold, Gas)	S/S	-103	Isopropyl Alcohol	B, S, S/S	-101	Pydraul 10E	S, S/S	-103
Ammonium Nitrate	S/S	Std.	Isopropyl Ether	B, S, S/S	Std.	Pydraul A-200, C Series	S, S/S	-101
Amyl Chloride	S/S	-101	Isocyanate	S	-101	Pydraul, 3 Series	S, S/S	-101
Arsenic Acid	S/S	Std.	Kerosene	B, S/S	Std.	Sea Water (Salt Water)	S/S	Std.
Asphalt	S/S	-101	Linseed Oil	S, S/S	Std.	Silicone Greases	B, S, S/S	Std.
Brine (Sodium Chloride)	S/S	Std.	Lubricating Oil (SAE 10,20,30,40,50)	B, S, S/S	Std.	Skydrol 500, Type 2	S, S/S	-103
Butane	S/S	Std.	Mercury	S/S	Std.	Skydrol 7000, Type 2	S, S/S	-103
Butanol (Butyl Alcohol)	S/S	Std.	Methane	B, S/S	Std.	Soap Solutions	S/S	Std.
Calcium Acetate	B, S	-103	Methanol	B, S/S	Std.	Sodium Acetate	B, S, S/S	-103
Carbon Dioxide	B, S/S	Std.	Methyl Bromide	S, S/S	-101	Sodium Carbonate (Soda Ash)	S, S/S	Std.
Carbon Tetrachloride	B	-101	Methyl Chloride (Wet)	B	-101	Sodium Cyanide	S, S/S	Std.
Castor Oil	B, S, S/S	Std.	Methyl Ethyl Ketone (MEK)	B, S, S/S	-103	Sodium Metaphosphate	S	Std.
China Wood Oil (Tung Oil)	S/S	Std.	Mineral Oils	B, S, S/S	Std.	Sodium Nitrate	S/S	-103
Chloroform	S/S	-101	Naphtha	S	-101	Sodium Perborate	S/S	-101
Corn Oil	B, S, S/S	Std.	Naphthalene	S	-101	Sodium Peroxide	S	-101
Creosote	S/S	Std.	Naphthenic Acid	S	-101	Sodium Phosphates	B, S/S	Std.
Crude Oil	S/S	-101	Nickel, Acetate	S/S	-103	Sodium Sulfate	S/S	Std.
Cutting Oil	S, S/S	Std.	Nickel Sulfate	S/S	Std.	Soybean Oil	S, S/S	Std.
Detergent, Water Solution	S/S	Std.	Nitrogen	B, S, S/S	Std.	Steam (below 400° F)	B, S/S	-103
Diesel Fuel	B, S/S	Std.	Nitrous Oxide	S/S	Std.	Sucrose Solutions	B, S, S/S	Std.
Diethylene Glycol	S, S/S	Std.	Octyl Alcohol	B, S, S/S	-101	Tannic Acid (10%)	B	Std.
Dimethyl Formamide	S/S	-103	Oxalic Acid	S/S	-101	Tertiary Butyl Alcohol	B, S, S/S	-101
Ethanol	B	-103	Oxygen (200-400° F.)	B, S/S	-101	Tetraethyl Lead	B, S, S/S	-101
Freon 11	B	-101	Oxygen, (below 200° F.)	B, S/S	Std.	Tetraethyl Lead (blend)	B, S, S/S	-101
Freon 12	B, S, S/S	-102	Ozone	S/S	-101	Titanium Tetrachloride	S	-101
Freon 22	B, S/S	-102	Palmitic Acid	B, S/S	Std.	Toluene	B, S, S/S	-101
Freon R134a	B, S, S/S	-102	Para-Dichlorobenzene	S	-101	Transmission Fluid (Type A)	B, S, S/S	Std.
Fuel Oil	S/S	Std.	Peanut Oil	S, S/S	Std.	Turbine Oil #15	S/S	-101
Gas, Liquid, Propane (LPG)	B, S/S	Std.	Petrolatum	B, S, S/S	Std.	Turpetine	S/S	Std.
Gas, Natural	B, S/S	Std.	Petroleum Oil, (below 200° F)	B, S, S/S	Std.	Varnish	B, S, S/S	-101
Gasoline (unleaded)	B, S/S	-101	Phenol	B, S, S/S	-101	Water (below 100° F)	B, S/S	Std.
Glucose	B, S, S/S	Std.	Phosphorous Trichloride	S/S	-101	Water (above 100° F)	B, S/S	-103
Glycerine (Glycerol)	S, S/S	Std.	Plating Solutions (Chrome)	B, S/S	-101	Xylene	B, S/S	-101
Glycols	S, S/S	Std.	Plating Solutions (other)	S/S	-101			

To Order: Suffix seal compound part number to coupling part number.
Example: H4S-103, 1/2" NPT, FHK Series, steel socket with ethylene propylene seals.

Note: Please consult with your Foster representative or the factory for any media not listed.

