

### Temperature Limitations And Recommendations

MATERIAL	TEMP. RANGE °F	MINIMUM S.G.	REMARKS
Neoprene	32 to 100	1.0	Good for abrasive service. Not recommended where sulfides are present.
Nitrile	-40 to 250	1.0	Good for abrasive service. Resistant to petroleum products. Not recommended where sulfides are present.
Bronze	-60 to 200	0.5	General purpose bearing successfully applied on non-abrasive fresh or salt water and hydrocarbons.
Engineered Plastic (Elastomeric Polymer/ Thermoplastics/ PTFE)	-80 to 250	0.3	Good for abrasive service. Low friction; suitable for dry start-up. Generally inert to harsh chemical solutions.
Carbon Graphite Babbitt	-100 to 400	0.5	Good for extreme temperatures and non-abrasive fluids. Also excellent where fluid has poor lubricating properties.

Notes: Temperature and S.G. are approximate for material classes, consult manufacturer for specific material alloy properties and service limits.

Construction	TEMP. RANGE °F	REMARKS
Bearings	100-140	Increase standard clearances .005"
Bearings	>140	Increase standard clearances .010"
Impellers	>200	Keyed impellers required
Wear Rings	>200	Mechanically affixed wear rings required
General	>140	Special consideration must be made for thermal properties of dissimilar materials. Consult Factory.