

**IMPORTANT NOTE:** The following guidelines are for general reference only and should not be used as the sole determining factor for rod guide material selection. Each downhole condition is different and must be addressed on a case-by-case basis by trained R&M Energy Systems technicians to determine the best solution for your particular well.

## Shop Installed Rod Guide Materials

Compound Code	Base Polymer	Temperature °F Max	Hot Oil	Hot Brine	Plastic Lined Tubing	Sour Crude	High Water Cut	Rod Cut Tubing	Sand	Corrosion Resistance <sup>1</sup>	Chemical Resistance <sup>1</sup>	CO2 Resistance <sup>1</sup>
<b>SB-1</b>	*	309	Yes	Yes	No	Yes	Yes	Yes	Good	Good	Good	Excellent
<b>AF</b>	PPA	400	Yes	Yes	No	Yes	Yes	Yes	Excellent	Excellent	Good	Excellent
<b>AU</b>	PPA	250	Yes	Yes	Yes	Yes	Yes	No	Fair	Good	Good	Excellent
<b>NFF</b>	NYLON	275	Yes	No	No	No	No	No	Fair	Good	Good	Fair
<b>LG-3</b>	*	325	Yes	No	Yes	Yes	Yes	No	Fair	Good	Good	Excellent
<b>PPS</b>	PPS	400	Yes	Yes	No	Yes	No	Yes	Excellent	Excellent	Excellent	Good
<b>T180<sup>2</sup></b>	*	180	No	No	Yes	Yes	Yes	No	Good	Excellent	Excellent	Excellent

## Field Applied Rod Guide Materials

Compound Code	Base Polymer	Temperature °F Max	Hot Oil	Hot Brine	Plastic Lined Tubing	Sour Crude	High Water Cut	Rod Cut Tubing	Sand	Corrosion Resistance <sup>1</sup>	Chemical Resistance <sup>1</sup>	CO2 Resistance <sup>1</sup>
<b>AU</b>	PPA	250	Yes	Yes	Yes	Yes	Yes	No	Fair	Good	Good	Excellent
<b>NF</b>	NYLON	180	No	No	Yes	No	Yes	No	Fair	Fair	Fair	Fair
<b>UHMW PE</b>	UHMWPE	180	No	No	Yes	Yes	Yes	No	Good	Excellent	Excellent	Excellent
<b>RC</b>	*	400	Yes	Yes	Yes	Yes	Yes	Yes	Good	Excellent	Excellent	Excellent
<b>T180</b>	*	180	No	No	Yes	Yes	Yes	No	Good	Excellent	Excellent	Excellent

\*Proprietary blend

<sup>1</sup> As temperature goes up, corrosion and chemical resistance goes down.

<sup>2</sup> Used only for Spin Thru sleeves.