

# Patriot Piston Resistance and Usage Chart



As you can see from the below chart the Patriot Piston line is designed to have success in most drilling muds operated in today's market. When using the proper mud weight there is not much the Patriot Piston line cannot handle. We offer a Patriot Piston for any drilling condition providing extended Piston and Liner life lowering your operating costs and reducing safety related injuries.

Feature	HPHT	EXTREME	MAX
Abrasion Resistance	Excellent	Excellent	Excellent
Tear Resistance	Excellent	Excellent	Excellent
Resistance to Oil	Excellent	Excellent	Excellent
Chemical Resistance	Very Good	Very Good	Very Good
Resistance to Synthetic Oil	Excellent	Excellent	Excellent
Temperature Resistance	Excellent	Excellent	Excellent
Use in Oil Based Muds	Excellent	Excellent	Excellent
Use in Synthetic Based Muds	Excellent	Excellent	Excellent
Use in Water Based Mud < 10#	Poor / NR	Poor / NR	Good
Use in Water Based Mud > 10#	Good	Good	Very Good
Use in Water Based Mud < 11#	Good	Good	Good
Use in Water Based Mud > 11#	Very Good	Very Good	Excellent
Use in Clear Water	Poor / NR	Poor / NR	Poor / NR
Use in Salt Water	Poor / NR	Poor / NR	Poor / NR
Use in Low Solids	Excellent	Excellent	Excellent
Use in Moderate Solids	Excellent	Very Good	Excellent
Use in High Solids	Very Good	Very Good	Very Good
Liner Wear Characteristics	Excellent	Excellent	Excellent
Use in Zirconia/Ceramic Liners	Excellent	Excellent	Excellent
Maximum Temperature (FL) (°F)	220°	300°	220°

Excellent 
 Very Good 
 Good 
 Poor / NR 