

# SEAL GUIDE

## Colonial Seal Company

### HOW ARE YOU SEALING TODAY?

<p><b>S</b> - Feel the need to <b>SPEED</b>?</p> <p><b>T</b> - How is your <b>TEMPERATURE</b>?</p> <p><b>A</b> - Tell me your <b>APPLICATION</b>!</p> <p><b>M</b> - What is your <b>MATERIAL</b> world?</p> <p><b>P</b> - Can you handle the <b>PRESSURE</b>?</p>	<p><b>GIVE ME YOUR MEASUREMENTS</b></p> <ul style="list-style-type: none"> <li>• Shaft/Rod Diameter</li> <li>• Bore Diameter</li> <li>• Seal Width</li> <li>• 1 inch = 25.4 millimeters</li> </ul>	<p>Convert Fahrenheit to Celsius:  <math>C = (F - 32) * 0.555</math></p> <p>Convert Celsius to Fahrenheit:  <math>F = (C * 1.8) + 32</math></p> <p>Pressure:          1 bar = 14.7 psi</p>
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### TELL ME HOW YOU REALLY SEAL? (Hundreds of other profiles available)

STANDARD SHAFT SEALS	HYDRAULIC SEALS	SPECIALTY SEALS	FABRIC REINFORCED SEALS	CUSTOM METAL SEALS
				

MATERIAL	TEMPERATURE	HARDNESS (SHORE)	SHELF LIFE	USE	SPEED CONVERSION FORMULA
Fluorocarbon (Viton®)	-13° to +400°F	Shore A: 55-90	20 years	Resistant to most special lubricants & chemicals	$\text{FPM} \times .3048 = \text{MPM Shaft Diameter (inches)} \times \text{RPM} \times .262 = \text{FP}$
Urethane (AU or PU)	-30° to +175° F	Shore A: 70-90	3-5 years	Suitable for use in hydraulic oils	
Nitrile (NBR)	-85° to +250°F	Shore A: 40-95	5-10 years	Purpose, excellent for most mineral oils & greases. Chemicals & oxidation resistant.	
Silicone (VMQ)	-85° to +400°F	Shore A: 20-80	20 years	Static seals in extreme temperature situations	$\text{MPM} \times 3.281 = \text{FPM Shaft Diameter (mm)} \times \text{RPM} \times .001 \times 3.142 = \text{MPM}$
Neoprene®	-40° to +221°F	Shore A: 40-90	5-10 years	Resistant to petroleum oils, ozone, sunlight and oxygen aging. FDA approved	
EPDM	-80° to +300°F	Shore A: 40-95	5-10 years	Resistant to outdoor weather. Commonly use in automotive brake & cooling systems, water applications. Low torque drive belts.	
Perfluoroelastomers (Kalrez®)	-13° to +600°F	Shore A: 65-90	15 years	Resistant to degradation by aggressive fluids and/or gases	
PTFE (Teflon®)	-300 to +450°F	Shore D: 54-57	Unlimited	Resistant to most chemicals including acids, bases, oils, steam and other chemicals	

BENEFITS OF WORKING WITH US	SCAN QR CODES BELOW AND VISIT WEBSITES
<ul style="list-style-type: none"> <li>• Quick turnaround within 48 hours on domestic manufacture and 7 days on international manufactures</li> <li>• No tooling</li> <li>• No minimum quantity</li> <li>• Custom design capability</li> <li>• Specialty design and prototyping</li> <li>• Replacement oil and grease seals for CR, SKF, National, Timken.</li> <li>• JM Clipper/Parker replacements</li> <li>• Vulcan Mechanical Seals</li> <li>• Garlock replacements</li> </ul>	 <p>Specialty distributor of USA &amp; globally sourced (not China) seals.</p> 
	 <p>USA manufacturer of machine/lathe cut seals.</p> 
	 <p>USA manufacturer of custom metal-cased seals</p> 