

# Gasketing Selector Charts

GENERAL COMPARISON	GASKET TYPE		
	Conventional Gasket Dressings	Formed-in-Place Anaerobics	Formed-in-Place Silicones
<b>BENEFITS</b>	Versatile, immediate green strength (sticky)	Improved structural strength, long open time, high pressure seal	High gap filling, resistant to dynamic fatigue, on-line pressure testing
<b>LIMITATIONS</b>	Non-curing, limited gap fill, % shrinkage	Limited fill	Short open time
PROCESS CONSIDERATIONS	GASKET TYPE		
	Conventional Gasket Dressings	Formed-In-Place Anaerobics	Formed-In-Place Silicones
<b>NUMBER OF COMPONENTS</b>	1	1	1
<b>CURE METHOD</b>	Not Applicable	Anaerobic	RTV
<b>CURE TEMPERATURE</b>	Room Temperature	Room Temperature	Room Temperature
<b>CURE SPEED</b>			
<b>Initial Cure</b>	Immediate	15 to 30 minutes	15 to 30 minutes
<b>Full Cure</b>	Not Applicable	24 to 72 hours	1 to 7 days
<b>PROCESSING OPTIONS</b>			
<b>Manual</b>	Yes	Yes	Yes
<b>Automated</b>	No	Yes	Yes

PERFORMANCE CONSIDERATIONS	GASKET TYPE		
	Conventional Gasket Dressings	Formed-in-Place Anaerobics	Formed-in-Place Silicones
<b>TEMPERATURE RESISTANCE</b>			
<b>Continuous Operation</b>	-65°F to 400°F (-54°C to 204°C)	-40°F to 300°F (-40°C to 149°C)	-60°F to 400°F (-51°C to 204°C)
<b>Maximum</b>	600°F (316°C)	400°F (204°C)	725°F (385°C)
<b>FLUID RESISTANCE</b>			
<b>Oil</b>	Yes	Yes	Yes
<b>Water/Glycol</b>	Yes	Yes	Yes
<b>Fuel</b>	Limited	Limited	No
<b>Transmission Fluid</b>	Yes	Yes	Yes
<b>GAP FILL</b>			
<b>Ideal</b>	0.001" to 0.005"	0.001" to 0.005"	0.001" to 0.125"
<b>Maximum</b>	0.010" (0.254 mm)	0.050" (1.27 mm)	0.240" (6.096 mm)
<b>INSTANT SEAL</b>	High Pressure	Low Pressure	Low Pressure
<b>FLANGE TYPE</b>	Rigid or Flexible	Rigid	Rigid or Flexible
<b>SUITABLE FOR USE WITH:</b>			
<b>Metals</b>	Yes	Yes	Yes
<b>Plastics*</b>	Yes	No	Yes

## Properties Chart: Gasketing

LOCTITE® PRODUCT	Part Number	Container	Color	Viscosity (cP)	Temperature Range	Sealing Time	Agency Approvals
<b>515™</b>	38655	50 ml tube	Purple	275,000/950,000 Thixotropic paste	-65° to 300°F (-54°C to 149°C)	15 min-2 hrs. w/primer 1-12 hrs. w/o primer	UL Classified for U.S.
<b>518™</b>	37394 37530	50 ml tube 300 ml cartridge	Red	800,000/3,750,000 Thixotropic paste	-65° to 300°F (-54°C to 149°C)	30 min-4 hrs. w/primer 4-24 hrs. w/o primer	CFIA
<b>Hi-Tack Stick</b>	39158	19 g stick	Purple	Vertical applications, repositionable	-65° to 300°F (-54°C to 149°C)	5 minutes to set	•

## Properties Chart: Gasketing

LOCTITE® PRODUCT	Part Number	Container	Color	Oil Resistance	Non-Corrosive	Temperature Range	Sealing Time	Agency Approvals
<b>Ready Gasket</b>	37511 37512 40480 37510	4 oz. can 5 oz. cartridge 190 ml power can aerosol 7 oz. can	Black	Increased oil resistance	Non-corrosive	-75° to 500°F (-59° to 260°C) intermittent	Operating Strength 15 psi - 1 min.	GM 998-5990 Ford WSE-M4G 323-A6 Chrysler GF-44-A
<b>RTV Blue Silicone</b>	37461 40482 37525	80 ml tube 190 ml power can aerosol 300 ml cartridge	Blue	•	•	-65° to 500°F (-54° to 260°C) intermittent	Tack-free 30 min. — Full Strength 24 hrs.	•
<b>RTV Red Silicone</b>	37469 37529 40465 37528	80 ml tube 7.25 oz. can 190 ml power can aerosol 300 ml cartridge	Red	•	•	-75° to 600°F (-59° to 316°C) intermittent	Tack-free 30 min. — Full Strength 24 hrs.	CFIA
<b>RTV 598™ Black Silicone</b>	37472 37467 40463 37519 37518	0.37 oz. tube 80 ml tube 190 ml power can aerosol 8.75 oz. can 300 ml cartridge	Black	Excellent oil resistance	Non-corrosive	-75° to 625°F (-59° to 329°C) intermittent	Tack-free 30 min. — Full Strength 24 hrs.	American Bureau of Shipping, CFIA
<b>RTV 587™ Blue Silicone</b>	37465 40462 37516	80 ml tube 190 ml power can aerosol 300 ml cartridge	Blue	Increased oil resistance	Non-corrosive	-75° to 500°F (-59° to 260°C) intermittent	Tack-free 30 min. — Full Strength 24 hrs.	American Bureau of Shipping, UL Classified for U.S., CFIA
<b>RTV 592™ Copper Silicone</b>	37466 37517	80 ml tube 300 ml cartridge	Copper	Increased oil resistance	Non-corrosive	-65° to 700°F (-54° to 371°C) intermittent	Tack-free 60 min. — Full Strength 24 hrs	CFIA
<b>RTV 5699™ Grey Silicone</b>	37464 40505	80 ml tube 190 ml power can aerosol	Grey	Increased oil resistance	Non-corrosive	-75° to 625°F (-59° to 329°C) intermittent	Tack-free 30 min. — Full Strength 24 hrs.	CFIA
<b>Aviation Gasket Sealant</b>	37559 37558	4 oz. brushtop can 16 oz. brushtop can	Dark reddish brown	Oil resistant	Non-corrosive	-65° to 400°F (-54° to 204°C)	Full Strength 12 hrs.	•
<b>Gasket Sealant 1</b>	37541 37542	1.5 oz. tube 3 oz. tube	Reddish brown	Oil resistant	Non-corrosive	-65° to 400°F (-54° to 204°C)	Full Strength 24 hrs.	•
<b>Gasket Sealant 2</b>	37543 37544	1.5 oz. tube 3 oz. tube	Black	Oil resistant	Non-corrosive	-65° to 400°F (-54° to 204°C)	Remains tacky	•
<b>Hi-Tack Gasket Sealant</b>	37554 37555 37553	4 oz. brushtop can 9 oz. aerosol 16 oz. brushtop can	Red	Increased oil resistance	Non-corrosive	-65° to 500°F (-54° to 260°C) Aerosol to 600°F	5 min. to set	•
<b>Copper Gasket Adhesive</b>	37583	9 oz. aerosol	Copper	Oil resistant	Non-corrosive	-50° to 500°F (-45° to 260°C)	Remains tacky	•