

SHEL LAB VACUUM OVEN GASKETS GUIDE



The SHEL LAB Vacuum Ovens are equipped with silicone gaskets. While these gaskets resist a wide variety of temperatures and pressures, they can breakdown in the presence of solvents and acids. For solvent applications, we recommend using Buna gaskets. For acidic applications, we recommend using Fluorosilicone or Viton® gaskets.

Part #	Description	Old Part #	Max Temp.	General Application	Resistant To:	Attacked By:
3450630	Red Silicone 9.2 x 9.3 [0.6 CF]		230°C	General & High Temperature	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide.	Many solvents, oils, concentrated acids, dilute sodium hydroxide.
3450706	Black Silicone 9.2 x 9.3 [0.6 CF]	100029	230°C	General & High Temperature	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide.	Many solvents, oils, concentrated acids, dilute sodium hydroxide.
3450610	Flourosilicone 9 x 9 [0.6 CF]		175°C	Acidic	Moderate or oxidizing chemicals, ozone, aromatic chlorinated solvents, bases.	Brake fluids, hydrazine, ketones.
3450669	Viton® 9 x 9 [0.6 CF]	110085	205°C	Acidic	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Ketones, low molecular weight esters and nitro containing compounds.
3450712	Buna 9 x 9 [0.6 CF]	100049	105°C	Solvent	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.
3450707	Red Silicone 12 x 12 [1.7 CF]	100037	230°C	General & High Temperature	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide.	Many solvents, oils, concentrated acids, dilute sodium hydroxide.
3450611	Flourosilicone 12 x 12 [1.7 CF]		175°C	Acidic	Moderate or oxidizing chemicals, ozone, aromatic chlorinated solvents, bases.	Brake fluids, hydrazine, ketones.
3450670	Viton® 12 x 12 [1.7 CF]	100578	205°C	Acidic	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Ketones, low molecular weight esters and nitro containing compounds.

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Part #	Description	Old Part #	Max Temp.	General Application	Resistant To:	Attacked By:
3450708	Buna 12 x 12 [1.7 CF]	100038	105°C	Solvent	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.
3450719	Red Silicone 18 x 18 [4.5 CF]	310028	230°C	General & High Temperature	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide.	Many solvents, oils, concentrated acids, dilute sodium hydroxide.
3450612	Flourosilicone 18 x 18 [4.5 CF]		175°C	Acidic	Moderate or oxidizing chemicals, ozone, aromatic chlorinated solvents, bases.	Brake fluids, hydrazine, ketones.
3450671	Viton® 18 x 18 [4.5 CF]	100233	205°C	Acidic	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Ketones, low molecular weight esters and nitro containing compounds.
3450724	Buna 18 x 18 [4.5 CF]	891054	105°C	Solvent	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.

Please note that customer specific operational parameters may lengthen or shorten the life of any gasket.