

Choose a *FlexChem* Gasket Compatible with Your Chemistry

Three types of gasket materials are available from SciGene for use with *FlexChem* Reactor Blocks and *FlexChem* II Vial Arrays. Each will reliably seal the reactors but may not be reusable under some conditions.

- A. **Natural rubber** has narrow chemical resistance but can be inexpensively replaced between runs.
- B. **Viton®** has broader chemical resistance (including methylene chloride) and can be reused within its range of compatible solvents.
- C. **ChemTuf-III™**, available exclusively from SciGene, is a Teflon® laminate with outstanding chemical resistance.

The three gasket materials make *FlexChem* Synthesis Systems a versatile tool that can be used under a wide variety of solvent and temperature conditions.

FlexChem Gasket Solvent Compatibility Chart

Solvent bp (°C)	Incubation conditions		RUBBER			VITON			CHEMTUF-III		
	Temp (°C)	Time (hr)	GR*	Solvent	Block	GR*	Solvent	Block	GR*	Solvent	Block
				Retention	Integrity		Retention	Integrity		Retention	Integrity
Methylene chloride bp (40°C)	23	3	Y	Excellent	Excellent	Y	Excellent	Excellent	Y	Excellent	Excellent
	23	17	Y	Poor	Excellent	Y	Excellent	Excellent	Y	Excellent	Excellent
	35	3	Y	Fair	Excellent	Y	Good	Excellent	Y	Excellent	Excellent
	35	17	N	Poor	Good	Y	Fair	Good	Y	Good	Good
Dimethyl formamide bp (153°C)	23	3	Y	Excellent	Excellent	N	Excellent	Excellent	Y	Excellent	Excellent
	23	17	Y	Good	Excellent	N	Excellent	Excellent	Y	Excellent	Excellent
	95	3	Y	Excellent	Excellent	N	Excellent	Excellent	Y	Excellent	Excellent
	95	17	Y	Fair	Excellent	N	Poor	Excellent	Y	Excellent	Good
Tri- fluoroacetic acid bp (72.4°C)	23	3	N	Excellent	Excellent	Y	Excellent	Excellent	Y	Excellent	Excellent
	23	17	N	Excellent	Excellent	Y	Excellent	Excellent	Y	Excellent	Excellent
	67	3	N	Excellent	Excellent	Y	Excellent	Excellent	N	Excellent	Excellent
	67	17	N	Excellent	Excellent	N	Excellent	Excellent	N	Excellent	Excellent

Solvent retention definitions:

Excellent < 3% weight loss
 Good = 3-5% weight loss
 Fair = 5-10% weight loss
 Poor = more than 10% weight loss

Block integrity definitions:

Excellent = no visible deformation
 Good = slight deformation
 Fair = noticeable deformation
 Poor = extensive deformation

*GR=Gasket Reusable

FlexChem Block Sealing Cover Gaskets

UoM

1052-03-1	Rubber Sealing Cover Gasket. Fits both top and bottom sealing covers (1052-01-0, 1052-02-0, 1052-01-1 and 1052-02-1).	Each
1052-13-1	Rubber Sealing Cover Gasket. Fits both top and bottom sealing covers (1052-01-0, 1052-02-0, 1052-01-1 and 1052-02-1). Bulk pack.	50/Pack
1052-03-0	Viton Sealing Cover Gasket. Fits both top and bottom sealing covers (1052-01-0, 1052-02-0, 1052-01-1 and 1052-02-1)	Each
1052-13-0	Viton Sealing Cover Gasket. Fits both top and bottom sealing covers (1052-01-0, 1052-02-0, 1052-01-1 and 1052-02-1). Bulk pack.	50/Pack
1052-13-3	ChemTuf III Cover Sealing Gasket	Each
1052-13-4	ChemTuf III Cover Sealing Gasket, 10/pack	10/Pack