



BISCO® Silicones

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## BISCO® SILICONES CHEMICAL RESISTANCE GUIDE

BISCO® Silicone materials provide design solutions for applications in Transportation, Communication, Industrial and Medical markets. The following chemical resistance information, when used with the typical physical properties for each material, is provided to assist in assessing suitability for each application.

**Results:** In general, BISCO Silicone materials show excellent or very good resistance to exposure to diluted acids and bases, organic fluids and petroleum products. When immersed, the materials can exhibit moderate swelling and a reduction in properties.

RATING KEY		1	2	3	4	5
Tensile Strength & Dimensional Stability (% Change)		0-20	20-40	40-60	60-80	80-100
Compression Set (% Actual)		0-5	5.0-10	10-15.0	15+	

	BISCO® Silicone BF-1000					BISCO® Silicone HT-800 Series				
	Tensile Strength		Dimensional Stability		Compression Set	Tensile Strength		Dimensional Stability		Compression Set
SOLVENT MEDIUM	Wet	Dry	Wet	Dry	Dry	Wet	Dry	Wet	Dry	Dry
<b>ACIDS &amp; BASES</b>										
10% Sulfuric acid	1	1	1	1	1	1	1	1	1	1
10% Hydrochloric acid	2	2	1	1	1	1	1	1	1	1
10% Acetic Acid	2	1	1	1	1	3	1	1	1	1
10% Sodium bicarbonate	1	1	1	1	1	1	1	1	1	1
10% Ammonia water	1	1	1	1	1	1	1	1	1	1
10% Potassium hydroxide	1	1	1	1	1	1	1	1	1	1
<b>ALCOHOLS</b>										
Isopropyl alcohol	2	1	1	1	1	2	1	1	1	1
Methyl alcohol	2	1	1	1	1	1	1	1	1	1
<b>AUTOMOTIVE FLUIDS</b>										
Gasoline	4	1	2	1	1	4	1	2	1	1
<b>HOUSEHOLD CLEANERS</b>										
Mr. Clean®	1	1	1	1	1	1	1	1	1	1
Fantastik®	2	1	1	1	1	1	1	1	1	1
Formula 409®	1	1	1	1	1	1	1	1	1	1
<b>MISCELLANEOUS</b>										
Distilled Water	1	1	1	1	1	1	1	1	1	1

See reverse for additional data.

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RATING KEY		1	2	3	4	5
Tensile Strength & Dimensional Stability (% Change)		0-20	20-40	40-60	60-80	80-100
Compression Set (% Actual)		0-5	5.0-10	10-15.0	15+	

SOLVENT MEDIUM	BISCO® Silicone General Purpose Solids					BISCO® Silicone Performance Solids				
	Tensile Strength		Dimensional Stability		Compression Set	Tensile Strength		Dimensional Stability		Compression Set
	Wet	Dry	Wet	Dry	Dry	Wet	Dry	Wet	Dry	Dry
<b>ACIDS &amp; BASES</b>										
10% Sulfuric acid	1	1	1	1	1	1	1	1	1	1
10% Hydrochloric acid	1	1	1	1	1	1	1	1	1	1
10% Acetic Acid	1	1	1	1	1	1	1	1	1	1
10% Sodium bicarbonate	1	1	1	1	1	1	1	1	1	1
10% Ammonia water	1	1	1	1	1	1	1	1	1	1
10% Potassium hydroxide	1	1	1	1	1	1	1	1	1	1
<b>ALCOHOLS</b>										
Isopropyl alcohol	1	1	1	1	1	1	1	1	1	1
Methyl alcohol	1	1	1	1	1	1	1	1	1	1
<b>AUTOMOTIVE FLUID</b>										
Gasoline	3	1	2	1	1	2	1	2	1	1
<b>HOUSHOLD CLEANERS</b>										
Mr. Clean®	1	1	1	1	1	1	1	1	1	1
Fantastik®	1	1	1	1	1	1	1	1	1	1
Formula 409®	1	1	1	1	1	1	1	1	1	1
<b>MISCELLANEOUS</b>										
Distilled Water	1	1	1	1	1	1	1	1	1	1

**Test Method:** Immersion duration for 168 hours (1 week), at room temperature, followed by 48 hours (2 days) drying. Material properties evaluated were tensile strength, dimensional stability and compression set resistance.

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