

# S70H

White silicone rubber

## Description

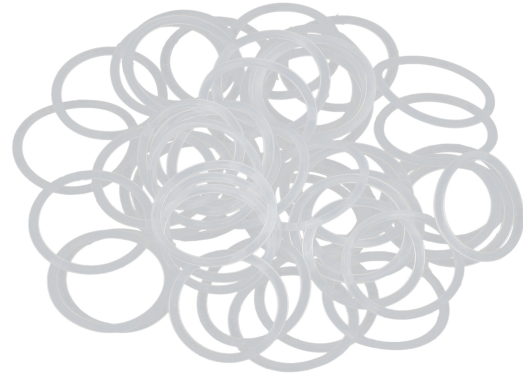
S70H is a white silicone rubber intended for use in food processing sector. Silicone offers excellent flexibility and low compression set characteristics as well as good resistance to ozone's and acids.

S70H has a long service life and it's storage capabilities can last up to 10 years initially with an extended period of up to 5 years.

As S70H is made from silicone its low chemical reactivity and low toxicity mean it won't release harmful substances into food.

## Key Attributes

- Compliant with FDA Title 21 (CFR21), Section 177.2600.
- Conforms to USP class VI suffix 87 and 88, Biological Reactivity tests.
- Used primarily for dry heat static seals.
- Chemically stable over a temperature range of -60°C to ±250°C.
- Excellent heat resistance and low temperature flexibility.
- Low physical strength and poor abrasion resistance prevents dynamic sealing.



## Typical Material Properties

Property	ASTM	ISO	Value
Material Type	VMQ	VMQ	
Colour			White
Hardness (°IRHD)	D1415	ISO48	70
Tensile Strength(MPa)	D412	ISO37	7.0
Elongation at break (%)	D412	ISO37	280
Compression Set: 24 hrs @70°C (158°F)	D395	ISO815	20%
Minimum Operating Temperature			-60°C (-76°F)
Maximum Operating Temperature			+250°C (+482°F)
Heat Ageing: 168 hrs@70°C (158°F)			
Hardness change (points) (°IRHD)	D1415	ISO48	+5
Tensile strength change	D412	ISO37	+20%
Elongation at break change	D412	ISO37	+30%

## FDA Regulation Extraction Test

Property	Unit	Auth Limits Mg/sq.inch	Materials Extracted FC70MOWHA/1 (batch P3157)
Distilled Water			
First 7 hours		20	0.1,0.7
2 succeeding hours		1	<0.1,0.2
n-Hexane			
First 7 hours		175	16.2,16.8
2 succeeding hours		4	0.6,0.6
Low temperature resistance			
Non-brittle after 3 mins	°C		-60

Special Note: This information is the best of our knowledge accurate and reliable. However, Abbey Seals International Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life. Therefore a regular programme of inspection and replacement is strongly recommended. In non-black grades of elastomer, it is possible to observe slight variations in colour. This is normal and is inherent in the par; it is not indicative of foreign matter. These colour variations are not expected to adversely effect the performance of the part. The material properties above should not be used for specification purposes