

Vacuum Sealing Compound

January 2018

Page 1 of 2

Introduction

Apiezon Sealing Compound Q is a versatile, temporary vacuum sealing medium. It is a soft, putty like substance which is easily moulded by hand at ambient temperatures, yet firm enough to remain in position and is readily removed when no longer required.

The key features of this product are shown in the table opposite.



Stop the leak

If a vacuum system develops a leak it is not always possible, or economically viable, to close down that system to undertake repairs.

Apiezon Sealing Compound Q offers an effective, temporary vacuum seal until such a time as permanent repairs become more convenient. In this way Apiezon Sealing Compound Q may reduce equipment down times and ensure important deadlines are met in production situations.

Extremely versatile

Apiezon Sealing Compound Q can be used to seal around the edges of flat unground joints, to blank off parts of an apparatus temporarily or to seal glass cylinders to metal plates to produce temporary vacuum enclosures.

Whether sealing joints, filling in holes or filling gaps in a vacuum system, Apiezon Sealing Compound Q is extremely versatile and is the ideal leak sealant in a wide array of uses and industries.

Easy to use

Apiezon Sealing Compound Q is easily moulded by hand at ambient temperatures, yet firm enough to remain in position. When kneading or rolling Compound Q, care should be taken to ensure that hands and surfaces are clean in order to preserve the low vapour pressure characteristics of the product.

It has a vapour pressure of approximately 9×10^{-5} torr at 20°C ensuring efficacious use where the vacuum requirement is not too low. With a softening point of 45°C Compound Q should be used where the site of application remains between -10 and +30°C.

Easy to remove

Apiezon Sealing Compound Q will adhere to a wide range of surfaces including glass, metal, plastic, etc. yet it is simply removed by peeling away from the site of application.

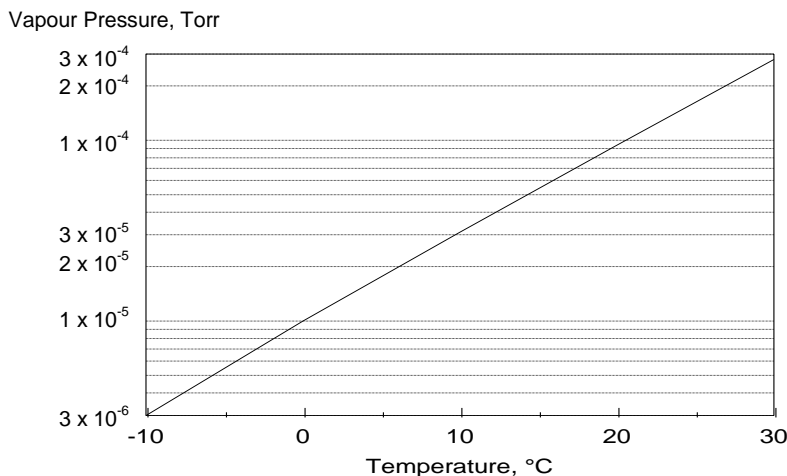
Any residues of the product can be washed away with warm soapy water, by using any aromatic hydrocarbon solvent (toluene, xylene) or by using a vapour degreasing bath.

Apiezon Sealing Compound Q is not soluble in alcohols (ethanol, IPA) or ketones (acetone, MEK) so these cannot be used for cleaning.

Under vacuum

Apiezon Compound Q exhibits good vacuum properties in the lower vacuum range. Full information on its vapour pressure characteristics over the working temperature range of the product is shown below.

Vapour pressure over working temperature range



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Page 2 of 2

Shelf life

The shelf life of Apiezon Q compound is ten years from date of manufacture, providing the product is in the original unopened packaging and has been stored at ambient (10 to 30°C) temperature.

Typical Properties

<i>Typical working temperature range,</i>	°C	-10 to 30
	°F	14 to 86
<i>Temperature for application</i>		Ambient
<i>Approximate softening point,</i>	°C	40 to 50
	°F	104 to 122
<i>Pack</i>		1 kg
<i>Vapour pressure @ 20°C / 68°F, Torr</i>		1×10^{-4}