

# RTV668 Silicone Rubber Casting Compound

- RTV668 is an easily pourable, room temperature vulcanising, general purpose castable silicone rubber.
- It is ideal for the manufacture of rubber moulds and intensifiers

## KEY PERFORMANCE PROPERTIES INCLUDE

- Excellent dimensional stability
- High tear strength
- High durometer
- Virtually no shrinkage (room temperature cure)

## TYPICAL PRODUCT DATA

<b>Product Base</b>	<b>RTV668A</b>
Colour	Beige
Viscosity, MPas	151,000
Specific Gravity, g/cm <sup>3</sup>	1.28
<b>Catalyst</b>	<b>RTV668B</b>
Colour	Green
Viscosity, MPas	3,800
Specific Gravity, g/cm <sup>3</sup>	1.05
Mix ratio, wt : wt	10 : 1
<b>Catalyzed Properties</b>	<b>RTV668</b>
Viscosity, MPas	120,000
Worklife, hrs	2
Podlife, hrs	2.5
Demould time, hrs	24
Shore A, 36 hrs	62
Tensile, MPa	7.2
Elongation, %	240
Tear, N/mm	18
Maximum use temperature	200°C
<b>Typical Cured Properties 24hrs @ 25°C, 50% RH, + 10mins @ 100°C</b>	<b>RTV668</b>
Durometer, Shore A	58
Tensile Strength, Kg/cm <sup>2</sup>	55
Elongation	250
Tear Strength, Kg/cm <sup>2</sup>	18
Shrinkage, %	<0.2
25.4 cm x 5.1 cm x 0.6cm bar 48hrs@25°C + 6 hrs @ 100°C	
Co-efficient of thermal expansion	8.3 x 10 <sup>-5</sup> cm/cm/°C

Cont.

## Aerovac Systems Ltd.

Tel: 01274 550500 Fax: 01274 550501 e-mail: [sales@aerovac.com](mailto:sales@aerovac.com) website: [www.aerovac.com](http://www.aerovac.com)

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith.

# RTV668 Silicone Rubber Casting Compound (cont)

## MIXING

- Select a mixing container 4-5 times larger than the volume of RTV silicone rubber compound to be used. Weigh out the RTV silicone rubber base compound and add the appropriate amount of curing agent. With clean tools, thoroughly mix the RTV base compound and the curing agent, scraping the sides and bottom of the container carefully to produce a homogeneous mixture. When using power mixers, avoid excessive speeds which could entrap large amounts of air or cause overheating of the mixture, resulting in shorter pot life.

## DE-AERATION

- Air entrapped during mixing, should be removed to eliminate voids in the cured product. Expose the mixed material to a vacuum of 10-20 mbar. The material will expand, crest and recede to about the original level as the bubbles break. De-gassing is usually complete about two minutes after frothing ceases.

## CURING

- RTV668 silicone rubber compound will cure sufficiently in 24 hours at 25°C. To achieve faster cure speeds, elevated temperatures may be used.

## AVAILABILITY & PACKAGING

- Supplied as complete kits - 5Kg, 20Kg & 224.75Kg

## STORAGE & HANDLING

- RTV668 has a 12 month shelf life, if stored in the original unopened container, below 27°C
- Contamination of uncured rubber by curing agent should be avoided
- Skin contact with curing agent should be avoided

## Aerovac Systems Ltd.

Tel: 01274 550500 Fax: 01274 550501 e-mail: [sales@aerovac.com](mailto:sales@aerovac.com) website: [www.aerovac.com](http://www.aerovac.com)

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith.