



## SILGEL-A65

### Soft Silicone Gel for Cushioning Applications



#### Product Description

SILGEL-A65 is a two part addition cure type Silicone Gel used for cushioning applications. The two low viscosity liquid silicones components when mixed together cure to form very soft, gel-like elastomer. These materials have been found useful for making soft cushions, mattresses and similar products where protection from external vibration and good cushioning is needed. This product has been specifically developed for easy mix ratio of 1:1 of two components (Part A and Part B). These gels are stable over a wide temperature range. The adhesion of these gels to various substrates makes them suitable for various applications in health care industry.

#### Applications

- Soft Cushions
- Mattresses.
- Soft pillows

#### Key Performance Properties

- Low viscosity – Free of solvents - Easy for mixing manually or in an automated mix-meter equipment
- Room Temperature Cure with easy Mix Ratio of 1:1
- Excellent Thermal oxidation resistance
- Excellent Dielectric properties
- Low volatility and low shrinkage
- Chemically inert
- Optical clarity allows visual inspections
- Self-healing behaviour
- Outstanding mechanical and thermal stress protection
- Vibration dampening
- Primer-less adhesion- tacky to many substrates/surfaces

## Typical Data

Typical product data values should not be used as specifications.

Property	Unit	Value
Viscosity at 25°C	mPa.s	A Part : 625 B Part :450
Density at 25°C	g.cm <sup>-3</sup>	0.98
Processing work(pot)life at 25°C	min	25
Cure Time at 25°C	min	<4 hours
Thermal Conductivity	W/mK	0.19
Coefficient of Thermal expansion	cm/cm °C	27X10 <sup>5</sup>
Flash point	°C	> 290
Pour point	°C	-50
Refractive Index at 25°C	n <sup>d</sup> 25	1.40
Water Content	ppm	< 100

## Storage and Transport

The warranty period is 9 months from date of shipment if stored in the original unopened container at ambient temperature of less than 27°C

The Silicone Gel described in this brochure will provide a mechanical bond, which has proven adequate for most uses. However, they require a primer to obtain a chemical bond to various substrates. For a chemical bond, if primers are needed (available in blue and transparent versions), please contact us

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Limited Warranty : The information mentioned in this data sheet is a description of the product to the best of our knowledge. Recommendations for use do not constitute a warranty of the fitness for a particular use. It is the user's responsibility to thoroughly test the product in a particular application to determine its performance and safety.