service chimie

: 5, place de l'Église
77400 St Thibault - France
: 33.01.64.30.89.22 • : 33.01.64.30.87.49
: Contact@Service-Chimie.fr

BIOMATERIALS
IMPLANT LINE

avantor™

MED4-4420

Low consistency silicone elastomer

DESCRIPTION

- A two-part, low viscosity, translucent silicone
- Cures with heat via addition-cure chemistry
- 1:1 Mix Ratio (Part A: Part B)

APPLICATION

- For use in potting, encapsulating, coating, and injection or transfer molding applications

NuSil™ MED4-4420 may be considered for use in human implantation for a period of greater than 29 days.

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Translucent	ASTM D2090	002
Viscosity, Part A	27,000 cP (27,000 mPas)	ASTM D1084, D2196	001
Viscosity, Part B	19,500 cP (19,500 mPas)	ASTM D1084, D2196	001
Work Time	35 minutes	-	008
Cured: 15 minutes at 150°C (302°F)			
Durometer, Type A	17	ASTM D2240	006
Tensile Strength	700 psi (4.8 MPa)	ASTM D412	007
Elongation	600%	ASTM D412	007
Tear Strength	35 ppi (6.2 kN/m)	ASTM D624	009
Tissue Culture (Cytotoxicity Testing)	Pass	USP <87> ISO 10993-5	061
Elemental Analysis of Trace Metals	Pass	ASTM E305	131

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INSTRUCTIONS FOR USE

Mixing

Combine Part A and Part B in a 1:1 mix ratio prior to use. Airless mixing, metering or dispensing equipment is recommended for production operations. If mixing by hand, take care to minimize air entrapment.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a suitable container of at least four times the volume of material being de-aired. Hold vacuum until bulk deaeration is complete.

Cure Inhibition

Curing may be inhibited by traces of amines, sulfur, nitrogen oxide, organotin compounds, and carbon monoxide. Because organic rubbers often contain these substances, they should not come in contact with the uncured elastomer. Catalyst residues from silicone RTV elastomers and peroxide-cured silicone elastomers may also inhibit the cure.

Packaging	Warranty
50 mL Side-by-Side Kit 400 mL Side-by-Side Kit 2 Pint Kit (910 g) 2 Gallon Kit (7.28 kg)	12 Months

warrant the use or sale of the products described herein will not infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.