



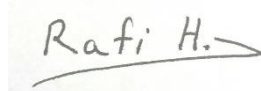
Israel Electric Corp. Ltd.
Generation & Energy Group
Generation, Engineering and Maintenance Division
Chief Chemist Department



Specification No. 680	Technical Specification for Chemicals and similar materials
Version: 05	
First Version: 24/11/2009	
Valid since: 25/09/2024	
Page 1 of 5	Category: Sealing Compound
Cancels and replaces Specification No. 680 version 04	

IEC Specification

High Temperature Silicone RTV Sealant

	Name	Date	Signature
Updated by	Efrat Brayer	25/09/2024	
Checked by	Dr. Rafi Haloui	25/09/2024	
Approved by	Pery Shoshani	25/09/2024	

1. **Purchaser:** Israeli Electric Corporation (IEC)

2. **Scope:**

This specification describes the requirements for a one part, acetic acid curing, room temperature vulcanizing (RTV), high temperature, silicone rubber based sealant/adhesive, used in IEC.

3. **IEC Catalog No.**

Catalog No.	Description
426379	Sealing Compound, RTV Silicone, max. temperature 300°C Package : 60-100mL
5303914	Sealing Compound, RTV Silicone, max. temperature 300°C Package : 300-320mL

4. **Physical and Chemical Requirements**

- 4.1 The sealant shall be one part, curing by reaction with moisture in the air, room temperature vulcanizing (RTV), high temperature performance silicone rubber based sealant/adhesive, suitable for Sealing and encapsulating heating elements in appliances.
- 4.2 The proposed product shall comply with the physical and chemical properties mentioned in table 1 and table 2 (see Appendix No. 1).

5. **Packaging and Marking**

- 5.1. The sealant/adhesive shall be supplied according to the package sizes mentioned in paragraph 3.
- 5.2. Each Package shall be legibly and durably marked with at least the following details:
- Product Name
 - Manufacturer's Name
 - Part Number
 - Material description and concentration
 - Net volume of package
 - Distinctive lot or batch number
 - Date of manufacture

- Safety Marking

5.3. Marking shall be made by stenciling or other similar process and shall be waterproof.

6. Quality Assurance

- 6.1. The manufacturer shall have a certificate attesting compliance with the requirements of the international standard ISO 9001 valid for the scope of supply required in IEC specification.
- 6.2. The quality of the product is under the responsibility of the supplier.

7. Tender Documentation

The Supplier / Manufacturer shall submit with its offer to the tender the following documents in their latest version:

- 7.1. The bidder shall provide a certificate attesting compliance of the Manufacturer with the requirements of the international standard ISO 9001 valid for the scope of supply required in IEC specification. The date of validity of the certificate and the edition of ISO 9001 standard shall be valid on the last date set for submission of proposals in the tender.
- 7.2. Manufacturer's Technical specification (TDS), containing at least, the data required in IEC specification.
- 7.3. Manufacturer's Declaration – Tables 1 and 2 (Appendix No. 1) filled and signed by the bidder or the quality assurance manager of the manufacturer.
- 7.4. Manufacturer's Safety Data Sheet (SDS)
- 7.5. Certificate of analysis of the sealant from certified laboratory* for tests in this field, containing at least, the data required in IEC Specification.
- 7.6. Manufacturer's Part Number (P/N)

8. Delivery Documentation

Each delivery shall be accompanied by the following documents, in their latest version:

- 8.1 Manufacturer's Certificate of analysis (COA) of the proposed product from certified laboratory* for tests in this field, containing at least, the data required in IEC Specification.

8.2 Manufacturer's Safety Data Sheet (SDS) for the sealant.

Remark *

Certified Laboratory is a laboratory with quality management system which meets with ISO 9001 requirements relevant for laboratory tests and/or laboratory services.

9. References

- ASTM D2240 – Standard Test method for Rubber Property – Durometret Hardness
- ASTM D412 – Standard Test Method for Vulcanized Rubber abd Thermoplastic Elastomers - Tension

Appendix No. 1: Declaration of the manufacturer

Table No. 1: Declaration Concerning Technical Requirements of Delivery

Requirement	Yes/No
IEC catalog No. 426379 Package: 60-100mL	
IEC catalog No. 5303914 Package: 300-320mL	

Table No. 2: Technical requirements of proposed product

Property	Requirement	Manufacturer's Data
Hardness (ASTM D2240 or equivalent) [Shore A]	25 to 50	
Useful temperature range [°C]	-(50) to 300	
Elongation to break (ASTM D412 or equivalent) [%]	Min 270	
Shelf life in original unopened package [Months]	Min. 12	
Shelf life at the time of delivery [Months]	Min. 9	

Name of Manufacturer: _____

Signature of the Bidder or Quality Assurance Manager of the Manufacturer: _____

Date: _____