

Bharat Heavy Electricals Limited, Bhopal Control Equipment Engineering Division

Specification of Thermal Conductive Compound for IGBT Application

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Application	:	Traction / Railway

	Name:	Designation	Signature:
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HISTORY OF REVISIONS

Rev No.	Description
00	Concept release, original version
01	FORMAT1 added



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1. Introduction

This specification covers the requirement of thermal conductive compound for IGBT application for WAG7 Loco. This compound will be applied between Heat sink and IGBT.

2. Technical Specifications / Requirements

Thermal Conductive compound shall meet following technical requirements

- (i) Suitable for IGBT application
- (ii) Thermal conductivity -: 3.0 W/m.K or higher
- (iii) Viscosity 25 °C, Pa-Sec: 95 or lower
- (iv) Usable temperature range -: -20 to 170 degree Celsius
- (v) Low in toxicity
- (vi) Low evaporation weight loss
- (vii) Electrical insulating material
- (viii) Dielectric strength 0.25mm -: 1.8kV or higher
- (ix) Expiry date should be more than 10 months from the date of delivery.

3. Document to be submitted along with the offer

Supplier shall submit the following documents along with the offer:

- (i) Clause by Clause acceptance of the specification as per FORMAT 1 given in last page of the specification.
- (ii) Deviation if any should be clearly spelt out.
- (iii) Complete datasheet.

4. General Terms and Conditions

For other terms and Conditions, Refer BHEL Tender Enquiry.



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FORMAT 1

SNo.	Clasue No. of Specification	Bidder Compliance (Yes / No)	Deviation if any
1	Clause No.2(i)		
2	Clause No.2(ii)		
3	Clause No.2(iii)		
4	Clause No.2(iv)		
5	Clause No.2(v)		
6	Clause No.2(vi)		
7	Clause No.2(vii)		
8	Clause No.2(viii)		
9	Clause No.2(ix)		
10	Clause No.3(iii)		