

# IMT-EE1019

## CONDUCTIVE DIE ATTACH ADHESIVE

IMT-EE1019 is a single component, high purity, silver loaded die attach adhesive. This product is designed to meet demanding semiconductor and microelectronics die attach applications. It has an excellent adhesion property to various leadframes, high Tg FR4, BT based substrates and flex-tape. This conductive die attach adhesive is developed for fast curing at high temperature or moderate temperature inside a conventional box oven.

This high performance conductive die attach adhesive is packaged in syringes for use in automated, high speed dispensing equipment or in jar for pin transfer / stamping method.

IMT-EE1019 is a solventless and a 100% solid system. This conductive die attach adhesive does not contain any hazardous and/or prohibited substances. It complies to RoHS3, EU directive 2015/863 as well as Substances of Very High Concern (SVHC) published by ECHA.

### TYPICAL PROPERTIES\*

Cure Conditions (Actual holding temperature & time)	180°C for 5mins or 150°C for 15mins or 130°C for 30mins
Pot Life	24 hours at room temperature
Shelf Life	12 months at -40°C freezer (syringe packing)
Thaw Time @-40°C to RT	3cc syringe: 30mins 5cc & 10cc syringes: 60mins
<u>Physical Properties</u>	
Color	Silver before & after cure
Consistency	Smooth, thixotropic paste
Specific Gravity	2.70
Viscosity @25°C, 10rpm	20,500cPs
Thixotropic Index, (1/10rpm)	3.25
Glass Transition Temperature	70°C
Young's Modulus	4,300MPa
Shore D Hardness	83
Die Shear Strength	> 15Kgf per 3.2x2mm chip on Cu plated leadframe
Degradation Temperature	> 300°C
<u>Electrical &amp; Thermal Properties</u>	
Volume Resistivity	≤ 0.00050Ωcm
Thermal conductivity	2.0W/mK
<u>Ionic Contents</u>	
Chloride, Cl-	< 20ppm
Sodium, Na+	< 5ppm
Potassium, K+	< 5ppm

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**IN-MAT TECHNOLOGIES (S) PTE LTD**  
623 ALJUNIED ROAD, #05-09, ALJUNIED INDUSTRIAL COMPLEX  
SINGAPORE 389835

Tel / Whatsapp / Wechat: +65-8688 8711

E-Mail: [sales@inmat-tech.com](mailto:sales@inmat-tech.com)

Website: [www.inmat-tech.com](http://www.inmat-tech.com)