

# HYLOMAR®

www.hylomar.com

## HYLOMAR SPEZIAL

NON-SETTING JOINTING COMPOUND  
CORROSION PREVENTATIVE

### PRODUCT SHEET

#### ELECTRIC VEHICLE SPECIFIC

Hylomar Spezial is a solvent free non-setting and non-hardening sealant which is ideal for sealing joints against moisture ingress thus eliminating joint corrosion. It also acts as a form in place gasket which stops the leakage of fluids from within a joint.

Hylomar Spezial is resistant to the following fluids:

- + Water
- + Salt Water
- + Lubricants
- + Fuels
- + Coolants

#### Typical Applications

- + Electric vehicle battery housing
- + Connections
- + Inverters
- + Electric motors

#### FEATURES

- + Automotive OEM approved sealant
- + Eliminates joint corrosion
- + Easy to disassemble for servicing, maintenance and for recycling at the end of the battery life
- + Seals metal to metal, plastic composite to metal and plastic composite to plastic composite joints
- + Eliminates the need to E-coat the entire battery pack
- + Wide operating temperature range within the joint from -50°C to 250°C

#### TYPICAL PHYSICAL PROPERTIES

Colour	Blue
Specific Gravity	(ASTM D4659) 1.20-1.25g/ml
Flash Point	224°C (ASTM D92)
Appearance	Non-Setting Paste
Typical Temperature Range	-50°C to 250°C
Autoignition Temperature	445°C

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### Robotic Application

- + Hylomar Spezial has a unique rheology which allows for dispensing at room temperature without the need for specialised heating equipment
- + Suitable for high speed dispensing
- + Immediate joint assembly if required

### Service and Recycling

- + Eliminates joint damage when disassembling
- + Easy to remove from the disassembled joint surface
- + Unlimited assembly time during re-application
- + Apply from a standard cartridge dispenser

### ELECTRICAL PROPERTIES

ASTM D149 Dielectric strength / Dielectric breakdown voltage (23degC 50% R.H. Thickness 2.54mm)	6.5kV/mm
ASTM D257 Volume resistivity (23degC 50% RH applied voltage 500V dc for 60 seconds 2mm thickness)	$6.054 \times 10^9 \Omega\text{-cm}$
ASTM D257 Volume resistance (23degC 50% RH applied voltage 500V dc for 60 seconds 2mm thickness)	$5.326 \times 10^7 \Omega$
ASTM D150 Dielectric constant (Applied Voltage 1V @1kHz thickness 2mm)	3.558
ASTM D150 Power Factor (Applied Voltage 1V @1kHz thickness 2mm)	0.0306
ASTM D495 Minimum Arc resistance (thickness 2-3mm specimen carbonised, flamed and self-extinguished)	65 seconds
ASTM D495 Medium Arc resistance (Thickness 2-3mm specimen carbonised, flamed and self-extinguished)	81 seconds

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