



## BERGQUIST TGF 3010 APS

### Silicone-free, Fast-dispensable Battery Thermal Management Solution

#### 1 CUSTOMER CHALLENGES

- » Key automotive OEM required a fast-dispensable thermal gap filler with low squeeze flow in production and low pull off forces for in-line aftermarket repair.
- » To avoid the impact of any potential silicone outgassing, a silicone-free formulation was required.
- » Low equipment abrasion for limited maintenance was essential.

#### 2 RECOMMENDED TECHNOLOGY

- » Henkel developed a two-component, silicone-free, liquid gap filler: BERGQUIST TGF 3010 APS.
- » Material has a dispensing speed of 80 cc/second and is easily compressible.
- » A thermal conductivity of 3.0 W/mK provides ample heat dissipation while balancing filler load and minimizing the effects of dispensing equipment abrasion.



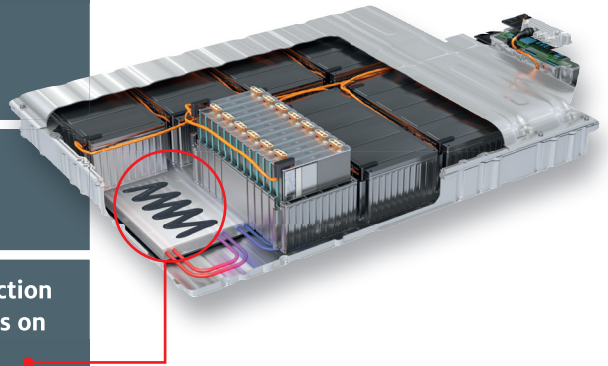
80 cc/second  
dispense rate



< 60 seconds  
application time



Supports daily production  
of > 500 battery packs on  
one production line



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### 3 MASS PRODUCTION PROCESS SET-UP

- » Through close collaboration with the dispensing equipment supplier, Henkel engineered a material that met all customer prerequisites.
- » With an application time of < 60 seconds, the OEM has the capability to produce > 500 battery packs a day on one production line.
- » Henkel e-Mobility experts provided close technical and on-site engineering support for validation and scale-up.

### CUSTOMER BENEFITS

<p>High dispense rate of 80 cc/second and application time &lt; 60 seconds</p>	<p>Optimized filler package with low abrasion characteristics</p>
<p>Silicone free formulation to avoid impact on optical, electrical contact or surface painting functionality</p>	

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