

Innovative Materials for APG Application



With the new materials Elan-tron® EC58/WH058.5 and Elan-tron® EC58/WH850.2 ELANTAS Europe developed an innovative Epoxy-Anhydride system offering a reduced post-curing time of 50%, especially tailored to APG application processes.

The APG application is common for the manufacture of bushings and insulators in large batches, in serial production and – very important – in a short time. This can be done by rapid gelation and demolding with automatic opening and closing of the mold using a clamping machine. During the gelling process, fresh material is supplied continuously to the mold under pressure, in order to prevent cracks and voids and to compensate the shrinkage of the material. After the demolding, to improve the mechanical and electrical properties, the finished product has to be post cured in an oven.

Both systems, Elan-tron® EC58/WH058.5 and Elan-tron® EC58/WH850.2, allow customers to speed up the pro-

duction thanks to a faster post curing time, moreover the technology developed by our R&D specialists provides a long pot life of the materials especially for pressure pot. Last but not least accelerant or flexibilizers are not requested for this systems, so just two liquid components have to be managed by customers.

The main advantages are:

- Low post curing time
- Stability
- Long potlife at low temperature
- 2-component materials

Added value is guaranteed: With the lower curing time customers benefit from an increase in productivity and from a high reduction of energy consumption.

For further information about our portfolio please contact us at castingpotting.elantas.europe@altana.com

Properties at 25 °C	Elan-tron® EC58/WH058.5	Elan-tron® EC58/WH850.2
Viscosity		
Resin (mPas)	4.800–5.700	4.800–5.700
Hardener (mPas)	350–650	100–200
Mixing ratio (% by weight)	100:105	100:95
Initial mixture viscosity (mPas)	1570	1450
Suggested filler amount (% wt.)	375	355
Gelation time (minutes)	50–60 (100 °C) 8–10 (140 °C)	28–37 (100 °C) 7–10 (140 °C)
Glass transition (°C)	90–95	110–125
Applications	Insulators and Bushings	Insulators and Bushings

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