

CASE STUDY - SILICONES

Need:

Silicone manufacturer needed to remove volatiles (VOCs) from heat-sensitive, reactive silicones while maintaining product integrity.

TMC Industries' Proprietary Process:

The product is distilled at the molecular level using a continuous-feed, Centrifugal Molecular Still. The CMS uses high vacuum and just the right amount of heat to where a very thin film of material is applied with an ultra short residence time of < 1 second.

Dedicated Capacity: up to 2 million pounds annually

Benefits:

- Reduced volatiles to < 0.05%
- Maintained molecular weight and structure
- No thermal degradation to material
- No capital outlay needed
- Rapid turnaround. Job was in and out in 1 week

Our Centrifugal Molecular Distillation selectively concentrates the desired compounds while removing the unwanted volatiles and other impurities. Through our process, we gently accomplish deodorization, purification and/or concentration of your products without danger of oxidation, decomposition or thermal degradation.

For more information on how TMC Industries Inc. can benefit your company as a tolling partner, please contact:

