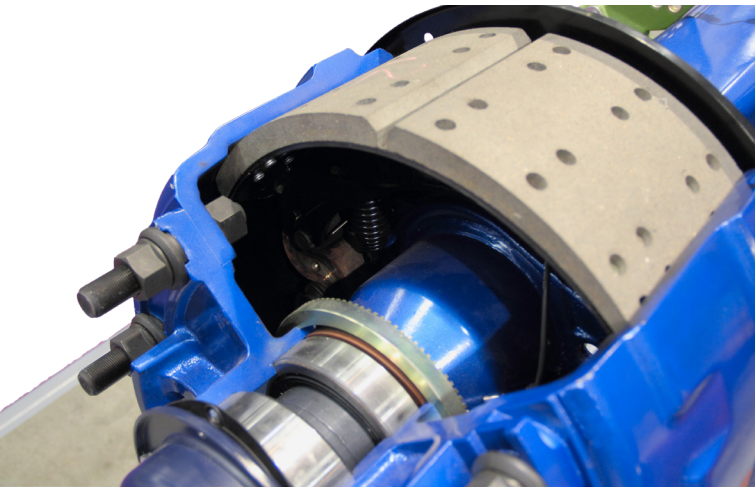


CONTROLLED PHENOL FREE REZIANCE F-7006G

Improvement of blisters in commercial vehicle linings

SUCCESS STORY



STARTING POINT & CHALLENGE

The conventional approach was to use an unmodified resin with a free phenol level of about 3,8% maximum for the linings.

The company in India, searched for a solution to reduce their internal rejection rates due to a “blistering” phenomenon which gave a differential sound in the tap test of the liners.

SOLUTION

- ASK Chemicals attributed it to entrapment of gas in the matrix of the composite.
- ASK Chemicals redesigned their existing resin to a lower and narrower Norton flow range of 40-42mm from a wider 40-50mm and at the same time controlled the monomeric free phenol to levels below 1,5%.
- ASK Chemicals ensured a narrow range of cure time to ensure consistent green strength, which refers to the mechanical strength of the lining during the early stages of curing.

TECHNICAL PROFILE REZIANCE F-7006G

Reziance F-7006G is a controlled-free-phenol unmodified powder resin, which is well established in Hindustan Composites liners applications in both OEM and aftermarket segments. The main attributes of the resin are:

- Consistent flow and molecular weight.
- Free phenol levels optimised for best output performance with minimal cost impact.
- Hexamine optimised to ensure a consistent curing profile.

BENEFITS AT A GLANCE

Technological

- Significant improvement in rejections of liners due to blisters.
- Interlaboratory variations arrested to a known delta thereby delivering a consistent product.
- Good feedback from the customer on quality consistency and improved wear resistance.

Workplace

- Improved workplace health conditions.

 **Reziance**
Engineered resin solutions