

VBASE® Base Oils: Elastomer Compatibility Data

The entire ISO VG range of VBASE® base oils were examined for elastomer compatibility with both NBR and FKM (sourced from Seal & Design, Inc.) in accordance with ASTM D471. The results of the testing can be noted in Figures 1 and 2 below.

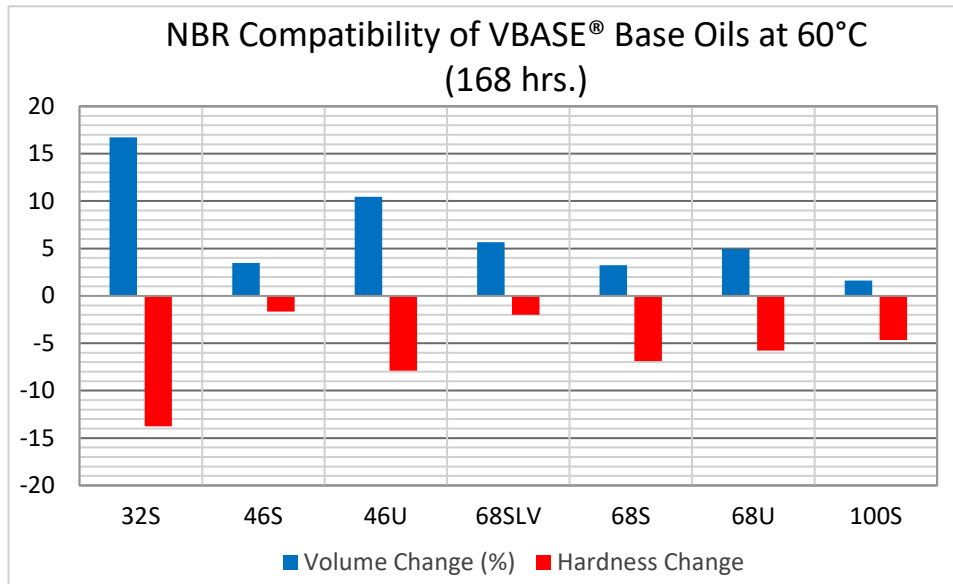


Figure 1. Volume and hardness change results for NBR coupons immersed in VBASE® base oils.

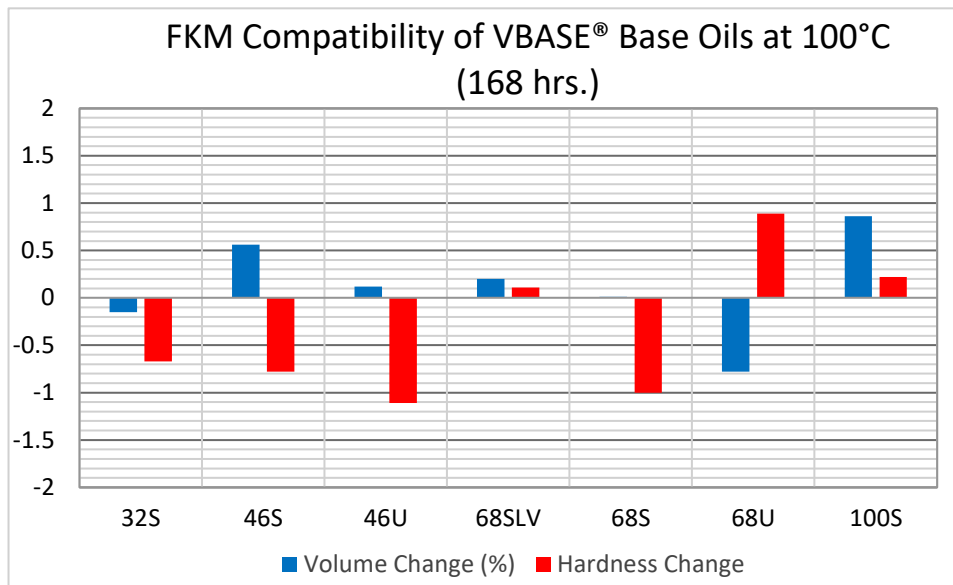


Figure 2. Volume and hardness change results for FKM coupons immersed in VBASE® base oils.

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In addition to general analysis of fluid compatibility of VBASE® base oils with both NBR and FKM elastomers, ISO VG 46 VBASE® base oils were compared to widely available commercial base oils from API Groups II-V, with the Group V oil being a TMP trioleate. The VBASE® base oils compare favorably with the commercially available oils (Figure 3) and meet the elastomer compatibility specifications for both mineral (ASTM D6158) and biodegradable (ASTM D8029) fluids.

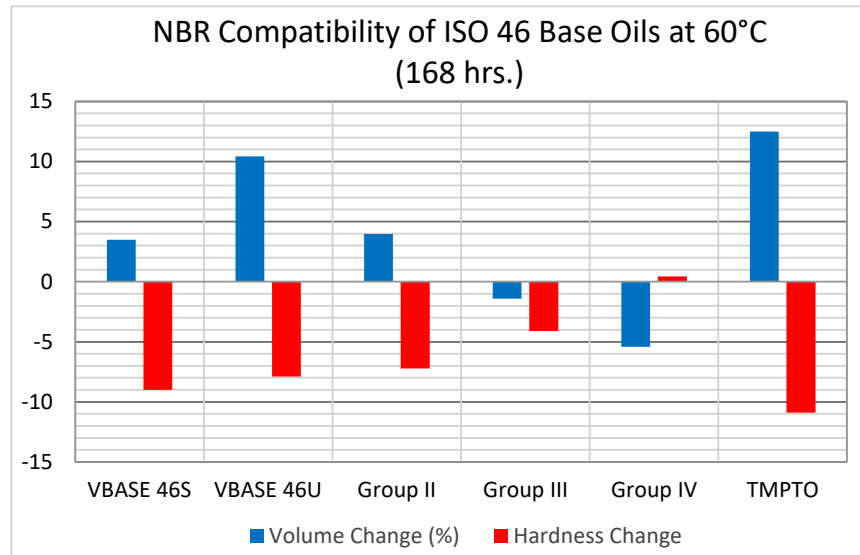


Figure 3. Volume and hardness change results for NBR coupons immersed in VBASE® ISO 46 base oils, along with representative Gp.

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