

Applications Bulletin

ZEOCHEM® Z10-03 molecular sieve adsorbent is a 13X zeolite intended for purification of hydrocarbon streams. Specific applications include removal of water, sulfur components, and oxygenates from a wide variety of feedstocks for pipeline specifications or for catalyst protection. For example:

- Drying and sweetening of NGL products, e.g., ethane, propane, butane, and LPG
- Purification of butane for isomerizer feed
- Purification of C5/C6 for isomerizer feed
- Purification of olefin feed to polyolefin plants

ZEOCHEM® Z10-03 molecular sieve joins Z10-01 (general service) and Z10-02 (air purification) as 13X products tailored for industry-specific purifications. Z10-03 is available in 4x8 (2.5-4.5 mm), 8x12 (1.5-2.5 mm), and 9x16 (1-2 mm) mesh sizes in both drums and bulk bags. See Zeochem 13X Bulletin for typical properties.

Zeochem AG has tested Z10-03 against another widely used 13X grade for this application. The methodology employed used a n-pentane carrier doped with ppm levels of common sulfur and oxygenate compounds. The adsorptive uptake was measured at equilibrium at 25 degrees C.

SULFUR:

The results show that **ZEOCHEM® Z10-03 molecular sieve** has a higher adsorptive capacity for every sulfur component tested, when compared side by side to the competitive grade.

OXYGENATES:

Again, **ZEOCHEM® Z10-03 molecular sieve** has a higher adsorptive capacity for ethers and methanol, when compared side by side to the competitive grade.

And Zeochem's proprietary forming techniques result in physical properties 25-50% higher than other beads. Why not try Z10-03 for your next project ?

Oxygenate Data



