HALLSTAR

PLASTICIZERS BENEFIT FOOTWEAR ELASTOMERS

APPLICATION CHALLENGE

Various elastomers are required to manufacture today's athletic footwear, such as styrene butadiene rubber (SBR), styrene-butadiene-styrene (SBS), butyl rubber and natural rubber. However, usability issues arise with color stability, flexibility and low-temperature performance.

HALLSTAR SOLUTION

Hallstar's ester plasticizers can improve elastomer performance, including wet traction, and they have a low toxicity profile. They are also available in dry Suprmix[®] form for easier handling and dispersion.

Plasthall® 185, Plasthall® DTDA – fully saturated aliphatic esters

- Improved flexibility
- Low-temperature usability
- Non-migration/non-bleeding
- Excellent color stability
- Low toxicity profile

StarTread® A-900

- Improved wet traction
- Non-skid on wet surfaces
- Permanent plasticization

The following graph and data tables illustrate that StarTread® A-900 offers 50 percent better wet traction than standard napthenic process oil.



Wet Traction

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Hallstar works collaboratively with companies around the world to create and enhance next-generation products.

Hallstar's expertise in polymer modification and optimization, coupled with our application knowledge across a wide range of industrial products, is unique in the specialty chemical industry. Our ability to create tailored solutions with esters—including phthalate replacement is based on years of esterification experience.

