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New silane coupling agents for NR/truck tire applications

Butyl nanocomposites with reduced air permeability: Theory and practice

Bead unseat testing

Advances in structure measurements of carbon black

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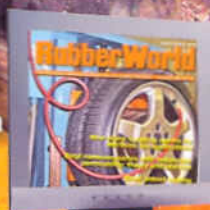
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FEATURES

17 Tech Service: Bead unseat testing

by Guy Edington, Standards Testing Laboratories. This testing method has proven to be effective in determining whether a tire is likely to remain seated on the rim seat during cornering maneuvers.

22 Process Machinery: Laser sensors improve tire manufacturing

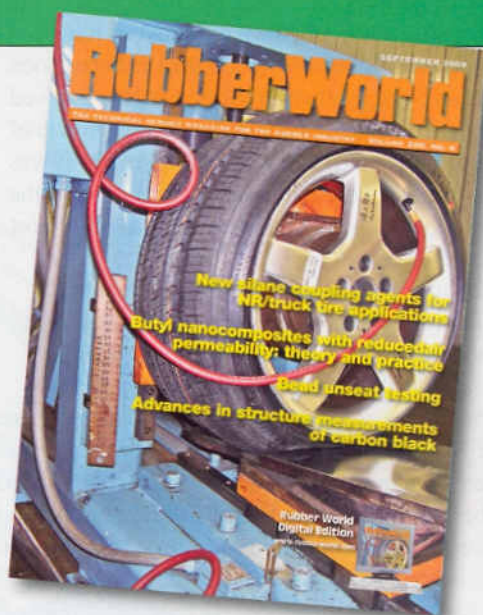
by Walt Pastorius and Martin Sanden, LMI Technologies. High-speed laser line sensors provide high-density data to detect and quantify defects and dimensional variations in tires.

27 Advances in structure measurements of CB

by George A. Joyce, William M. Henry and Ricky W. Magee, Columbian Chemicals. A dynamic void volume analysis has been shown to be an improved structure measurement of carbon black compared to oil absorption methods.

36 Butyl nanocomposites

by David J. Lohse, ExxonMobil Research & Engineering. Theory and practice of butyl nanocomposites with reduced air permeability are described by the author.



Cover photo: Courtesy of Standards Testing Laboratories

40 New silane coupling agents for NR/truck tire applications

by Ping Jiang, John Kounavis, Juan Alfonso, Wesley Sloan, Eric Pohl and Michael Stout, Momentive Performance Materials. Silanes containing non-reactive aralkyl and reactive chloro-hydrocarbyl groups are evaluated in natural rubber compounds suitable for tread.

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