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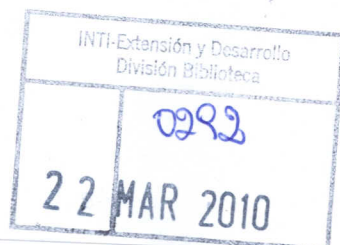
Smarter rubber testing

A unique o-ring failure mode

**Products optimization via
laboratory compound characterization**

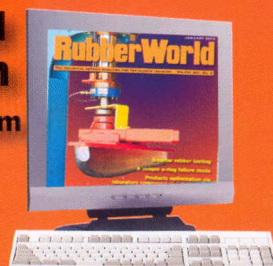
**Advantages of LCMS-IT-TOF mass
spectrometry in identifying additives**

Quantitative application of FTIR



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FEATURES

13 Tech Service: A unique o-ring failure mode

by Dan Ewing, Parker O-Ring Division. New o-ring failure modes are occasionally uncovered; in this case, diagnosis lead to a solution.

19 Silicone & Medical Update: Mass spectrometry

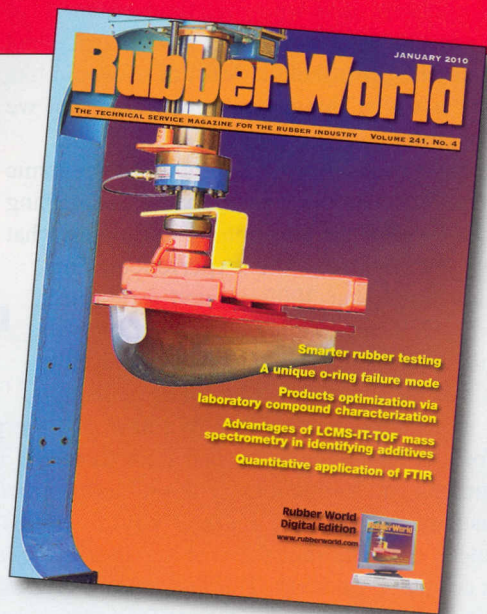
by Scott Kuzdzal, Shimadzu Scientific Instruments. Use and advantages of 3-D ion trap time-of-flight mass spectrometry to identify unknown additives in polymer formulations are examined.

24 Smarter rubber testing

by John S. Dick, Alpha Technologies. Effective application of computer systems, robotics, better factory layouts, planning and logistics, and creation and use of new materials has contributed greatly to improved productivity in the rubber industry.

33 Quantitative application of FTIR in rubber

by Sugata Chakraborty, Saptarshi Kar, Rohit Ameta, Saikat Dasgupta and Rabindra Mukhopadhyay, Hari Shankar Singhania Elastomer and Tyre Research Institute, and Samar Bandyopadhyay, J.K. Tire. Fourier transform infrared testing is used in rubber qualitative analysis.



Cover photo: Courtesy of Standards Testing Laboratories.

40 Rubber products optimization

by Ben Chouchaoui, Windsor Industrial Development Laboratory. Laboratory compound characterization and computer design/process simulation are described.

47 Instrumentation and test labs directories

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Digital Edition Content

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