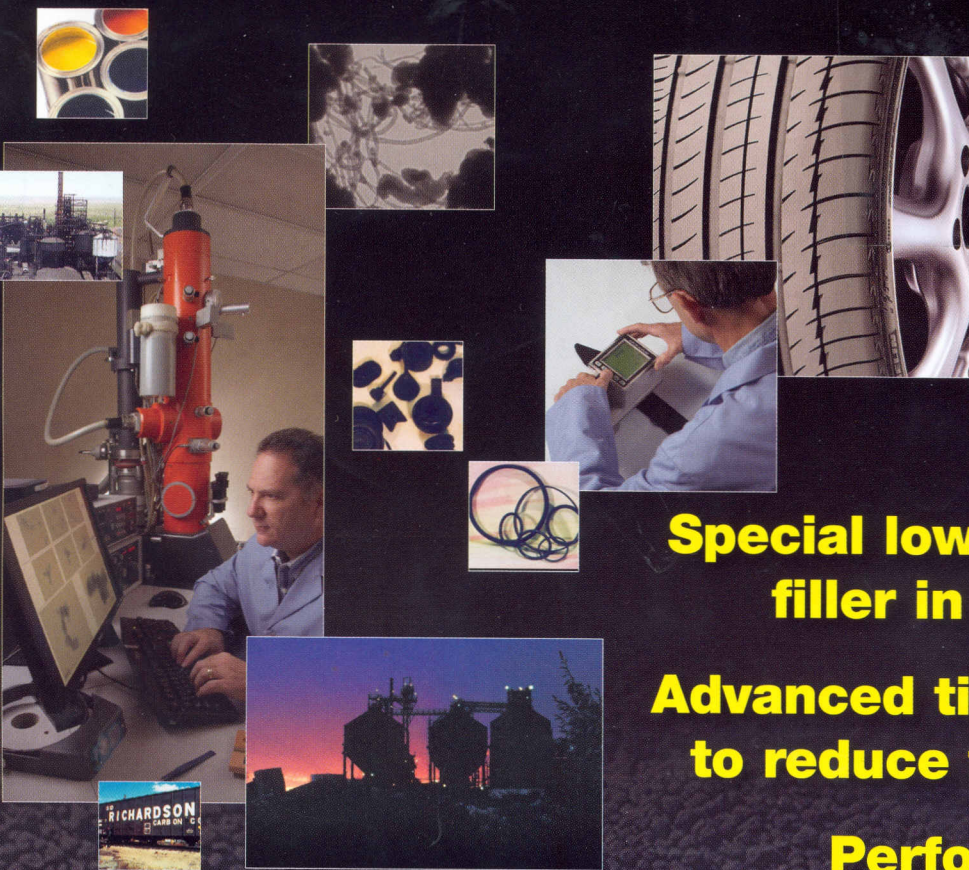


FEBRUARY 2010

RubberWorld

THE TECHNICAL SERVICE MAGAZINE FOR THE RUBBER INDUSTRY VOLUME 241, No. 5

CITIC
013



**Special low surface silica as
filler in fluoroelastomers**

**Advanced tire filler materials
to reduce fuel consumption**

**Performance of green,
tire derived, recovered CB**

**UV cure technology for silicone
rubber extrusion and LSR molding**

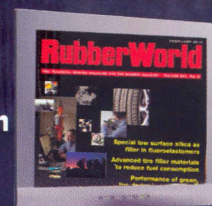
INTI-Extensión y Desarrollo
División Biblioteca

0992

22 MAR 2010

**Rubber World
Digital Edition**

www.rubberworld.com



Contents

Vol. 241, No. 5 February 2010

FEATURES

11 **Process Machinery: Designed experiments optimize filler loading**

by Arthur L. Scott, Lintech International. Designed experiments are used to optimize the filler loading in an EPDM compound.

13 **Medical Elastomer Tech: UV cure technology for silicone extrusion**

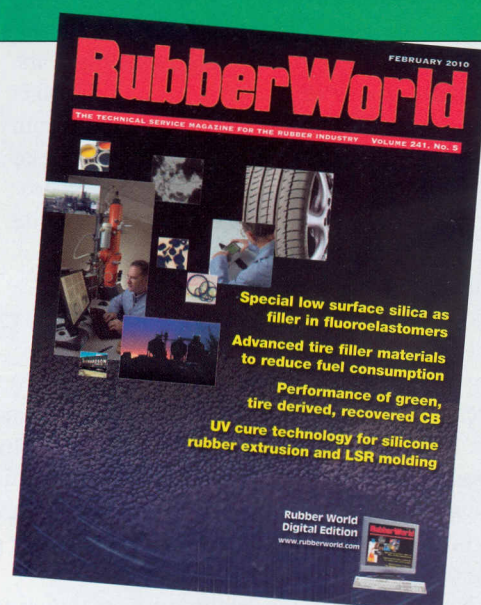
by Yi-Feng Wang, Stephan Boßhammer and Holger Albrecht, Momentive Performance Materials. UV cure technology for high speed silicone rubber extrusion and LSR molding is described.

15 **Advanced tire fillers**

by Michael D. Morris and Theo Al, Cabot. Advanced tire filler materials are used to reduce fuel consumption of commercial vehicles.

20 **Green, tire derived, recovered carbon black**

by William F. Cole, Jr., Delta-Energy. Recovered carbon black-based reinforcing agents that have preserved the structure of the carbon black aggregates take advantage of the mechanical reinforcing properties of the carbon black.



Cover photo: Courtesy of Sid Richardson.

27 **Special low surface silica as filler in fluoroelastomers**

by Gerd Schmaucks, Elkem AS, Materials. Replacement of carbon black N990 with specialty low surface silica provided in all tested fluoropolymers advantages in terms of processability as determined by capillary rheometry and tensile properties.

DEPARTMENTS

- 4 **Editorial**
- 6 **Business Briefs**
- 9 **Market Focus**
- 10 **Patent News**
- 32 **Meetings**
- 40 **Suppliers Showcase**
- 44 **People in the News**
- 46 **Literature**

Digital Edition Content

See the February digital edition of Rubber World for additional content not found in the print edition

- More U.S. patents
- Expanded business news
- Expanded equipment information
- Expanded instrumentation information
- Expanded materials information
- Expanded literature selection

Visit: rubberworld.com