

# RubberWorld

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## 2012 Chemicals & Materials

**Optimizing the use of micronized rubber powder made from end-of-life tire material**

**Silicone rubber in medical applications**


**Upgrading mixing operations and adding mixing capacity to an existing mill room**

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## FEATURES

### 16 Optimizing the use of micronized rubber powder made from end-of-life tire material

by F.P. Papp, Lehigh Technologies. Use of PolyDyne micronized rubber powder (MRP) in manufactured rubber products, while helping to solve the environmental problem of end-of-life tires, also helps reduce product costs. How best to incorporate MRP and ways to optimize important physical properties are explained, and it is concluded that through proper optimization, the use of MRP of up to 10% loading can be successful in achieving equal or nearly equal physical properties compared to a synthetic rubber control compound without MRP.



### 28 Silicone rubber in medical applications

by Burkhard Ledig, Momentive Performance Materials. StatSil, an award-winning silver-based antimicrobial platform, has been developed to prevent nosocomial infections caused by multi-resistant bacterial strains in hospitals and clinics. StatSil products can be tailored to unique customer requirements, and customized solutions based on the environmental conditions can be offered as both LSR and HCR options.

### 32 Upgrading mixing operations, adding mixing capacity for better productivity

by Lawrence R. Gooch, Gooch Engineering Associates. Part 2 of this article examines adding a mixer to an existing mill room, and describes three basic mixer types, as well as installation considerations.

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