

6-8%



**ANNUAL GROWTH**  
IN HIGH PERFORMANCE TIRES

-3%



**FUEL CONSUMPTION**  
THROUGH LOW ROLLING RESISTANCE S-SBR TIRES

50%



**IMPROVED PREDICTIVE ROLLING RESISTANCE**  
PARAMETER BETWEEN GEN1 AND NEWEST GEN

## Tires

Tires are highly complex in their composition. Each one must meet the most stringent safety requirements in varying weather and surface conditions. Above that they are expected to offer precision, control and a smooth and enjoyable ride. At the same time a low rolling resistance must guarantee minimal fuel consumption.

To meet these market demands, each tire component requires a specific rubber type and appropriate filler.

The solution-styrene butadiene rubber and high-cis butadiene rubber series offered by Trinseo cover a wide range of automotive needs and high performance applications. Trinseo Synthetic Rubber provides ideal solutions for various sectors, such as the car and light truck industry, the heavy truck and the agricultural industry as well as the bicycle and motorcycle branch.

## Standard Elastomers

Polymers are REACH exempt. Our cold E-SBR use TDAE to comply with 2005/69 EC, EU legislation requiring the use of low-PAH oils in tires.

Trinseo's nickel-butadiene rubber (Ni-BR) has over 95% cis content and is characterized by an adjusted molecular weight distribution that leads to excellent processing behavior. Our BUNA™ cis132 rubber also offers low hysteresis and good tear resistance, which makes it versatile in tire application.

## Advanced Performance Elastomers

Trinseo's S-SBR grades are produced by anionic batch polymerization and are available in a variety of styrene and vinyl contents. They are used in manufacturing high quality tires for multiple markets.

The SPRINTAN™ SLR series of solution-SBR features proprietary functionalization technologies effectively improving interaction of the S-SBR polymer with carbon black and silica filler leading to reduced dynamic heat build-up and rolling resistance.

In tire application, functionalized S-SBR allows to expand the 'magic triangle' and minimize tradeoffs among the three key properties: rolling resistance, wet grip, and abrasion resistance. SPRINTAN™ functionalized S-SBR is a key enabler to achieve excellent ratings in tire labeling.