

CRX™ 4210



Description

CRX4210 is a revolutionary new Carbon Silica Dual Phase Filler (CSDPF) developed for low hysteresis tire tread applications.

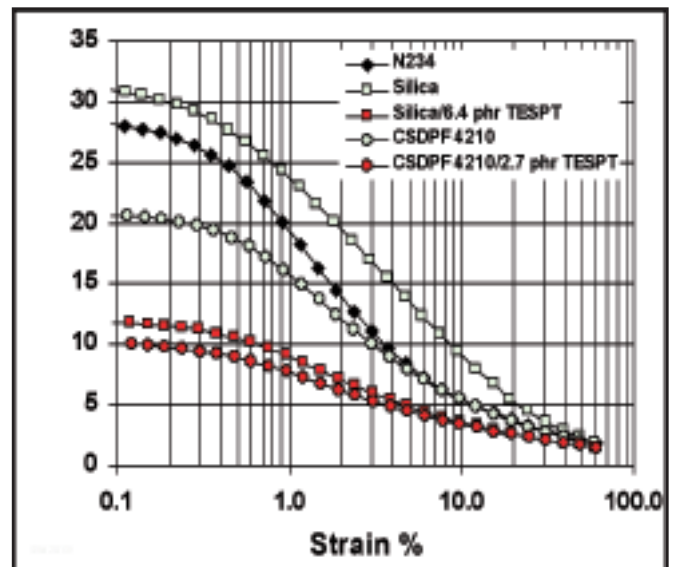
The Tire Industry has long asked for a filler to meet the demand for low fuel consumption, long service life of tire and driver safety, continuous improvements in compound dynamic properties (hysteresis at high temperature), increased abrasion/wear resistance and enhanced wet skid resistance.

However, with conventional fillers, the improvement in one or two of these properties requires trade-offs with other properties. For example, if low surface area carbon black would give rubber compounds with reduced rolling resistance, however, the abrasion resistance of the compound would be reduced. Silica is good for wet traction, the abrasion resistance of silica-based compounds is not as good.

The CSDPF 4210 is a high surface area reinforcing filler having about 10% Si that is primarily located at the surface of the filler aggregate for enhanced wet skid resistance and rolling resistance performance.

LOW FILLER-FILLER INTERACTION - LOW PAYNE EFFECT

- ❑ Low filler-filler interaction in CSDPF 4210-based compounds w/o silane coupling agent
 - Reduced chance of interaction between same categories (CB-CB and silica-silica)
 - Strong filler-polymer interaction leading to more bound rubber formation
- ❑ Coupling agent further depresses filler-filler interaction
 - Coupling reaction with CSDPF 4210 surface leading to reduced filler-filler interaction and flocculation





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