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**RUBBER CHEMICALS
 -ACCELERATORS-
 SPECIALTIES**

**ACCELERATOR VS (67%)
 (Zinc Dialkyldithiophosphate)**

DESCRIPTION:

Accelerator VS (ZBPD) is a non-staining and non-blooming accelerator for EPDM compounds and other sulfur curable elastomers. It offers good processing safety, medium fast curing characteristics, and is suitable for low sulfur cures. Powerful acceleration and a high degree of cross-linking can be obtained in conjunction with secondary accelerators.

Levels of 2-4 phr Accelerator VS are typical. For highly loaded stocks up to 5 phr may be used with 1.5 - 2.5 phr of sulfur. For faster rates of cure and higher degrees of cross-linking secondary accelerators, such as thiazoles, dithiocarbamates and thiurams must be added. It is important that levels are kept below the concentration causing blooming of the vulcanizates. A typical composition range would be:

Sulfur	0.5 – 2.5 phr
Accelerator VS.....	2.0 – 4.0 phr
MBTS (use BBTS for better scorch protection) ..	0.5 – 1.5 phr
TMTD (use TBzTD for non-nitrosamine).....	0.6 phr

Accelerator VS yields fully cured compounds even without the use of secondary accelerators. The physical properties of the vulcanizates are comparable to those obtained with the blooming ultra-accelerator combinations. This is of value in hose and belt applications wherein normal amine-based accelerators may have a deleterious effect on polyester yarn.

TYPICAL PROPERTIES

Appearance	white powder
Specific Gravity	1.30
Activity	67%
Sulfur content	15.5%
Packaging.....	55 lb.

CHEMICAL DISPERSIONS:

Accelerator VS is also available as Akroform[®] VS-50/EPR/P. This polymeric masterbatch contains 50% Accelerator VS and has a specific gravity of 1.24. Polymer bound or encapsulated dispersions are a proven means of upgrading plant safety, efficiency, quality & raw material control.

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