



255 Fountain Street Akron, Ohio 44304-1991
 330-535-2100 ♦ 800-321-2260 ♦ Fax 330-535-8947

RUBBER CHEMICALS
-ACCELERATORS-
SULFENAMIDES

ACCELERATOR DCBS

(Benzothiazyl-2-Dicyclohexyl Sulfenamide)

PRODUCT DESCRIPTION:

Accelerator DCBS is a sulfenamide accelerator with an extremely delayed onset of cure, recommended for applications where exceptionally long flow times are required. It is particularly suitable for rubber goods subjected to high dynamic stresses and can be employed for Natural Rubber (NR), Synthetic Polyisoprene (IR), Polybutadiene (BR), Styrene Butadiene Rubber (SBR) and Nitrile Rubber (NBR).

TYPICAL PROPERTIES:

Appearance.....	cream to brown granules
Specific Gravity	approx. 1.25
Melt Point.....	96 C minimum
Assay.....	95% minimum

APPLICATIONS:

Accelerator DCBS is suitable for compression and transfer molding, but cannot be used in hot air curing processes and is not recommended in steam cures. It is also not recommended in compounds loaded with light colored fillers due to the slowness of cure.

Accelerator DCBS offers the best scorch resistance of all sulfenamide accelerators and is especially useful where high processing temperatures are encountered or delayed cures are needed for optimum adhesion. Total curing times are longer than with CBTS or BBTS, but the flow time/curing time ratio is favorable.

Most suitable secondary accelerators for DCBS are dithiocarbamates (BZ) and thiurams (TMTM), but also basic accelerators can be used (DPG). It can also be employed in "low sulfur cures". However, addition of secondary accelerators significantly reduces the delay provided by the DCBS. The use of zinc oxide is necessary and stearic acid should be included in compounds where high modulus values are required.

The main application area is in large tires, but it is also employed in conveyor belts, driving belts, shock absorbers, mountings and other intricately shaped molded goods requiring extremely long flow periods in the molding process.

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