

## Rubber Accelerator TDEC(TEL)

**Chemical Name** Tellurium Diethyl Dithiocarbamate**Molecular Structure** 
$$\left[ \begin{array}{c} \text{H}_5\text{C}_2 \\ \text{H}_5\text{C}_2 \end{array} \right] \text{N} - \overset{\text{S}}{\parallel} \text{C} - \text{S} - \text{Te}$$
**Molecular Formula**  $\text{C}_{20}\text{H}_{40}\text{N}_4\text{S}_8\text{Te}$ **Molecular Weight** 721**CAS#** 20941-65-5**Specifications** Q/KS032-2003

Item	Specifications
Appearance	Light-orange to yellow powder
Melting Point, Initial (°C)Min.	108.0
Heat Loss (%)Max.	0.5
Tellurium Content (%)	16.5~19.0
Residue on 150 $\mu\text{m}$ Sieve (%)Max.	0.10
Residue on 63 $\mu\text{m}$ Sieve (%)Max.	0.50

**Properties** Density(on 20°C) is 1.48 g/cm<sup>3</sup>. The loosen density is approx 0.32~0.36 g/cm<sup>3</sup>. Soluble in chloroform, benzene, and carbon disulfide, slightly soluble in alcohol and gasoline, insoluble in water.

**Applications** As a kind of super accelerator used to natural rubber, styrene-butadiene rubber.

Commonly, using with some other kind of accelerators such as benzothiazole, sulfenamide. A fast velocity at vulcanizing temperature can be obtained, and intensile can be increased. Suitable for making inner tube of tires, soft tube, isolating layer of wire and cable, etc.. Don't use for manufacturing the products contacting with foods. TDEC is regulated for use in articles in contact with food as specified under BgVV XXI, Category 4.

**Storage** Store closed containers in a cool, dry, well-ventilated area. Avoid exposure to direct sunlight.

**Packing** 25kg net paper bags lined with polyethylene film bags.