SiO$_2$ DUST AGAINST STORED PRODUCT INSECTS

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ABSTRACT

Some experimental investigations were fulfilled to find out response of *Sitophilus granarius* and *S. oryzae* adults on the presence of SiO$_2$ dust in grain mass. The dosages of dust form 0.05 kg to 5 kg per metric ton were tested. Adult mortality time was observed after beetles contact with testing grain during 8-20 days. The mortality time depended on dosages as well as grain moisture content. Dust introducing in grain resulted to some reducing of grain moisture content. SiO$_2$ dust is able to be methyl bromide alternative.

**Keys words:** SiO$_2$, dust, grain, insects, mortality.