

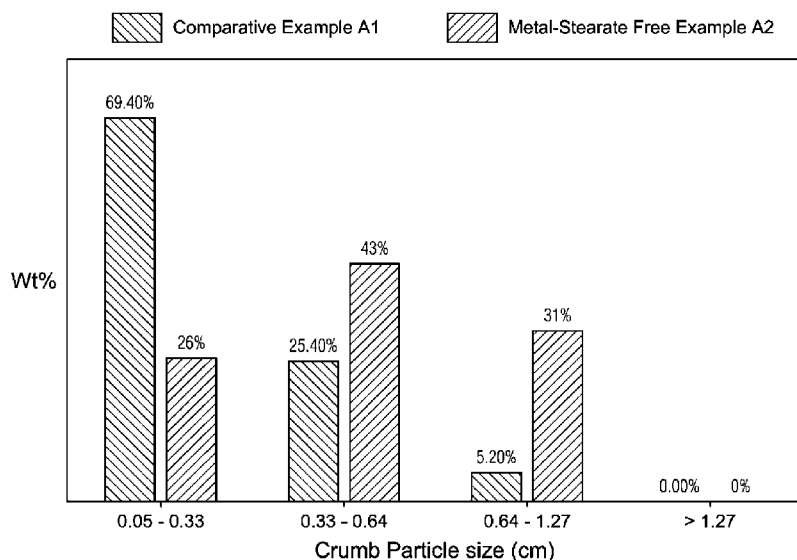


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(54) **Title:** FILLED ELASTOMERIC COMPOSITE AND PROCESS TO CONTROL COMPOSITE CRUMB SIZE**FIG. 1**

Effect of Carboxylic Acid Salt on Crumb Particle Size Distribution



(57) **Abstract:** To obtain an elastomeric composite crumb having a majority of the particle size distribution greater than 0.33 cm, the crumb is obtained by a process whereby the elastomeric composite comprises less than about 0.5 phr of a salt of a C<sub>8</sub> to C<sub>20</sub> carboxylic acid, or 10 to 20 phr of a tackifying resin or a combination of both an absence of carboxylic acid and the presence of the tackifying resin. The use of one or both methods permits control of crumb particle size distribution in emulsion or solution processes for producing elastomeric nanocomposites. The elastomeric composite is also disclosed.

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