

Screening and Metal Detection of Sugar Products

All sugar products of National Sugar Marketing LLC. are screened multiple times prior to bulk loading or packaging. As the sugar is drawn from storage and conditioning it passes over a 10 - 12 mesh scalping screen to remove any lumps that may have formed in storage. The sugar can be conveyed to classification screens to generate the various granulations sold. The classification screens are 32 mesh, 34 mesh, 64 mesh, and/or 72 mesh. The screened sugar is then conveyed to either bulk loading or packaging.

The sugar also passes through at least one metal detector. The sensitivity of the metal detectors are 1.5 mm ferrous, 1.8 mm non-ferrous, 2.0 mm stainless steel and 2.0 mm aluminum with automatic rejection of detected material. The rejected material is then examined to determine type and source of contaminate.

The sugar that is transferred into bulk railcars or trucks passes over a 12 mesh screen just prior to dropping into the railcar or truck. Sugar that is packaged in either supersacks (totes) or industrial polyethylene bags also passes over 12 mesh screens just prior to entering the packaging equipment.

Cane sugar marketed by National Sugar Marketing is either 10 or 12 mesh screens at the production location or at a receiving point. Metal detection is also done to the specifications listed above.

Granulated sugar may also be converted into liquid sucrose. The liquid sucrose is filtered immediately before transferring into a bulk container. The filters are 100 microns or finer.

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