

A brief outline of the method employed in asbestos wire manufacture is essential to qualify some of the illustrations and clarify the mechanics of asbestos fiber removal and collection.

"Deltabeston" the General Electric Company's trade name for asbestos insulated wire, comprises an insulating fiber of the crysotile variety $H_4M_{93}Si_2O_9$ free from iron and other foreign elements. The fiber is physically recognized as pure white #1 quality insulating fiber, length $\frac{3}{4}$ " - 1" or #2 grade length $\frac{3}{8}$ " - $\frac{5}{8}$ ". The method of grading employed by the asbestos mill comprises a screen test which is described briefly as follows: A 16 oz. sample of asbestos fiber is successively screened using first, two mesh screen, then four mesh and ten mesh. The bottom is a solid pan which retains "shorts" or fine splinters of unopened fiber. A typical screen analysis of #1 fiber and #2 fiber is given below:-

Method of grading

#1 Fiber 16 oz. sample

First screen	2 mesh	15.376 oz.	96% retained
Second "	4 "	.354 "	"
Third "	10 "	.240 "	"
Bottom - Solid pan		.030 "	0.18% shorts

#2 Fiber

First		15.085 oz.	94% retained
Second		.640 "	"
Third		.193 "	"
Bottom		.082 "	$\frac{1}{2}$ % shorts

Asbestos Textiles for Insulations

The above grading represents a final control test of quality of fiber used in the manufacture of asbestos textiles, such as roving, yarn