

APPENDIX C



DRUMMED WASTES - ESTIMATING SAMPLING SIZE



Designation: D 140 - 70

AMERICAN SOCIETY FOR TESTING AND MATERIALS

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Standard Methods of
SAMPLING BITUMINOUS MATERIALS¹

This Standard is issued under the fixed designation D 140; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval.

12. Sampling Semisolid or Uncrushed Solid Materials

12.1 *Drums, Barrels, Cartons, and Bags*—Where the lot of material to be sampled is obviously from a single run or batch of the producer, one package shall be selected at random and sampled as described below. Where the lot of material to be sampled is not obviously from a single run or batch of the producer, or where the single samples selected as described above fails on test to conform to the requirements of the specifications, a number of packages shall be selected at random equivalent to the cube root of the total number of packages in the lot. The following table is given, showing the number of samples to be selected for shipments of various sizes.

| Packages in Shipment | Packages Selected |
|----------------------|-------------------|
| 2 to 8 | 2 |
| 9 to 27 | 3 |
| 28 to 64 | 4 |
| 65 to 125 | 5 |
| 126 to 216 | 6 |
| 217 to 343 | 7 |
| 344 to 512 | 8 |
| 513 to 729 | 9 |
| 730 to 1000 | 10 |
| 1001 to 1331 | 11 |

Samples shall be taken from at least 3 in. (76 mm) below the surface and at least 3 in.

from the side of the container. A clean hatchet may be used if the material is hard enough to shatter and a broad, stiff putty knife if the material is soft. When more than one package in a lot is sampled, each individual sample shall be not less than 1/2 lb (0.1 kg) in weight. When the lot of material is obviously from a single run or batch of the producer, all samples from the lot shall be melted and thoroughly mixed, and an average 1-gal (4-dm³) sample taken from the combined material for examination. In case more than a single run or batch of the producer is present and the hatches can be clearly differentiated, a composite 1-gal sample shall be prepared for examination from each batch. Where it is not possible to differentiate between the various batches, each sample shall be examined separately.