METHODS OF SAMPLING AND TESTING
MT 320-17
MECHANICAL ANALYSIS OF AGGREGATE RECOVERED FROM IGNITION OVEN BURN
(*Modified* AASHTO T 30)

MT 320 is identical to AASHTO T 30 except for the following stipulations:

1. Replace Table 1 with the following:

Table 1 – Maximum Allowable Mass of Material Retained on a Sieve

Screen Size	8-inch (203 mm) Diameter Screen, Maximum Grams	8-inch (203 mm) Diameter Screen, Maximum Pounds	12-inch (304.8 mm) Diameter Screen, Maximum Grams	12-inch (304.8 mm) Diameter Screen, Maximum Pounds
1 ¼-inch (31.75 mm)			3821.9	8.4
1-inch (25.0 mm)			3057.5	6.7
¾-inch (19.0 mm)			2598.9	5.7
⅝-inch (16.0 mm)			2293.2	5.1
½-inch (12.5 mm)			1987.4	4.4
⅜-inch (9.5 mm)			223.0	2.7
No. 4 (4.75 mm)			318	0.7
No. 8 (2.36 mm)	194	0.4	436.5	0.9
No. 10 (2.00 mm)	194	0.4	436.5	0.9
No. 16 (1.18 mm)	194	0.4	436.5	0.9
No. 30 (0.600 mm)	194	0.4	436.5	0.9
No. 40 (0.425 mm)	194	0.4	436.5	0.9
No. 50 (0.300 mm)	194	0.4	436.5	0.9
No. 80 (0.180 mm)	194	0.4	436.5	0.9
No. 100 (0.150 mm)	194	0.4	436.5	0.9
No. 200 (0.075 mm)	194	0.4	436.5	0.9

Note – If the sample is overloading screens, split or quarter the sample in accordance with MT 607, Procedure for Reducing Field Samples of Aggregate to Testing Size. Grade each part of the sample separately and combine the weights to obtain a representative gradation. Use the following table to determine if screens are overloaded.

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