

SAND CONE CORRECTION FACTOR

North Dakota Department of Transportation, Materials and Research Division
SFN 59724 (5-2019)

Project Number	PCN	Date	Calibrated By	Tech ID
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Trial	1	2	3
A Wt. of jar, cone, and sand (before) lbs.			
B Wt. of jar, cone and sand (after) lbs.			
Trial	C ¹	C ²	C ³
C Wt. of sand in cone and ring (A-B)			

$$\text{Cone Correction Factor (Cc)} = \frac{(C^1 + C^2 + C^3)}{3}$$

Cc =

Note: all weights shall be recorded to the nearest .001 lbs. Three weights should not vary by more than 0.01 lbs.

SAND BULK DENSITY DETERMINATION

Trial	1	2	3
D Wt. of jar, cone, and sand (before) lbs.			
E Wt. of jar, cone and sand (after) lbs.			
F Wt. of sand in cone, ring, and density apparatus (D-E)			
G Wt. of sand in density apparatus (F-Cc)			
Trial	D ¹	D ²	D ³
H Density apparatus volume			
Bulk Density = (G / H)			

$$\text{Bulk Density Sand (Db)} = \frac{(D^1 + D^2 + D^3)}{3}$$

Db =