

# SAND CONE CORRECTION FACTOR

North Dakota Department of Transportation, Materials and Research Division  
SFN 59724 (2-2018)

Project Number	PCN	Date	Tested By
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Trial	1	2	3
<b>A</b> Wt. of jar, cone, and sand (before) lbs.			

<b>B</b> Wt. of jar, cone and sand (after) lbs.			
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Trial	C <sup>1</sup>	C <sup>2</sup>	C <sup>3</sup>
<b>C</b> 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
<b>D</b> Wt. of jar, cone, and sand (before) lbs.			

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

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

Db =