

Grain Size Analysis–Hydrometer Datasheet

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|------------------------------|---------------------|-------------------------------------|--|--|
| 1. Project | | | 2. Date | |
| 2. Sample ID | | 3. Researcher: | | |
| | | 4. Hydrometer Number/Type | | |
| Sample Preparation | | | | |
| 5. Pre-Treatment | | <input type="checkbox"/> HCl | | <input type="checkbox"/> H ₂ O ₂ |
| | | | | <input type="checkbox"/> Fe–O |
| 6. Beaker ID | 7. Dispersing Agent | | 8. Specific Gravity of Particles $GS_p =$ | 9. Desired Sample <input type="checkbox"/> 50 g <input type="checkbox"/> 100 g |
| 11. Total Soil for Split (g) | | | 10. Soil Passing Sieve No. 10 (g) | |
| 12. Tin #: | | 13. Tin Tare Weight | 14. Tin w/Air-Dried Soil | 15. Tin w/Oven-Dried Soil |
| Calculated Values | | | | |
| 16. % Passing No. 10 | | 17. % Hygroscopic Correction Factor | 18. Effective Soil Weight WS_e | 19. Actual Air-Dried Soil Weight WS_a |

Hydrometer Readings and Calculations *K is a constant that is calculated by the temperature and density of the suspension.

| 19. Time | 20. Elapsed Time (t) sec/min | 21. Actual Hydrometer Reading (R_a) | 22. Blank Hydrometer Reading (R_b) | 23. Temp. °C | 24. K constant* | 25. Effective Depth (L) | 26. Particle Diameter (D_e) | 27. PF Partial | 28. PF Total |
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No. 200 Sieve Quality Control/Quality Assurance

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| Tin # | Tin Mass | Wet Soil >200 Mess | Dry Soil |
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| 29. Researcher (Signature) | 30. Computed By (Signature) | 31. Checked By (Signature) |
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