D2488: 1 of 2 09/2020



Performance Examination - Soils

Standard Practice for Description and Identification of Soils (Visual-Manual Procedures) (ASTM D2488-17e1)

Candidate Name: NICET ID:		
Apparatus	Trial 1	Trial 2
Pocket Knife or Spatula		
Purity of Water City water supply or natural source, including non-potable water		
Hand Lens		
Shallow Pan		
Dilute Hydrochloric Acid 1 part HCl: 3 parts H ₂ O		
Test Tube and Stopper or Jar with Lid		
Procedures	Trial 1	Trial 2
Visual Procedure - Describe soil based on:		
1. Angularity (angular, subangular, subrounded, rounded)		
2. Shape (flat, elongated, flat & elongated)		
3. Color		
4. Odor (organic, oil product, chemical)		
5. Moisture condition (dry, moist, wet)		
6. HCl reaction (none, weak, strong)		
7. Consistency (very soft, soft, firm, hard, very hard)		
8. Cementation (weak, moderate, strong)		
9. Structure (stratified, laminated, fissured, slickensided, blocky, lensed, homogeneous)		
10. Particle sizes (range of particle sizes, max. particle size, sand, gravel, cobble)		
11. Maximum particle size (sand – fine, Med., or coarse) (gravel – smallest sieve pass) (cobble or boulder)		
12. Hardness (fracture, crumble, or hard)		
13. Dry strength (none, low, medium, high, very high)		
14. Dilatancy (none, slow, rapid)		
15. Toughness (low, medium, high		
16. Plasticity (non - plastic, low, medium, high)		
Peat: If Peat is Found, Not Subjected to Further Testing		
1. Identification based on the portion of soil passing the 3-in. (75-mm) sieve		
2. Percentage (by volume) of cobbles (between 12-& 3-in sieves) and boulders (+12-in.) estimated and noted		

Examiner Name: _____ Examiner Signature: _____ Date: ____





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Standard Practice for Description and Identification of Soils (Visual-Manual Procedures) (ASTM D2488-17e1)

Candidate Name:	NICET ID:		
Pr	ocedures (continued)	Trial 1	Trial 2
Percentages (by dry mass) of gra components "trace")	vels, sands, and fines estimated and noted (<5%		
4. Total percentages (excluding trac	e amounts) add up to 100%		
5. Identification of fine-grained soils representative sample)	(Particles larger than the No. 40 sieve removed from a		
6. Identification of coarse-grained so	pils		
First Attempt: Pass: Fail:	Second Attempt: Pass: Fail:		
Exam Administration: Remote	In-Person		
Comments:			
Examiner Name:	Examiner Signature: D)ate:	