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Soil classification aashto m145 pdf

Classification of Soil and Soil-Aggregate Mixtures For Highway Construction Purposes AASHTO M-145-91 (2000) (Modified)

This practice describes a procedure for classifying soils into seven groups based on laboratory determination of particle-size distribution, liquid limit, and plasticity index. The group classification should be useful in determining the relative quality of the soil material for use in embankments, subgrades, and backfills. For detailed design of important structures, additional data concerning strength or performance characteristics of the soil under field conditions will usually be required.

Modification: Determination of Group Index will not be a part of certification, but taught as a useful tool for more accurate determination of soil classification.

Key Elements:

1. **Determine sieve analysis.** Determine sieve analysis using AASHTO T-11 and AASHTO T-27 test procedures (Note 1). The 2.00 mm (No. 10) sieve, 425-µm (No. 40) sieve, and 75-µm (No. 200) sieve must be included to determine the particle size distribution as a basis for classification.

2. **Determine the liquid limit.** Determine the liquid limit of the material using AASHTO T-89 test procedures.

3. **Determine the plastic limit.** Determine the plastic limit and plasticity index of the material using AASHTO T-90 test procedures.

4. **Determine classification of material.** Using the test limits shown in Table 1 of AASHTO M-145, make the classification of the material. If a more detailed classification is desired, a further subdivision of the groups may be made using Table 2 of AASHTO M-145 **(3.1)**. With required test data available, proceed from left to right in Table 1 or Table 2 and the correct group will be found by process of elimination **(3.2)**. The first group from the left into which the test data will fit is the correct classification **(3.2)**.

5. **Report classification.** All limiting test values are shown as whole numbers. If fractional numbers appear on test reports, convert to the nearest whole number for purposes of classification **(3.2)**.

DESCRIPTION OF SOIL CLASSIFICATION GROUPS:

Soil Fractions. According to the AASHTO system, soils are divided into two major groups as shown in Table 1 of AASHTO M-145. These are the granular materials with 35 percent or less passing the 75-µm (No. 200) sieve **(5.1, Note 2)** and the silt-clay materials with more than 35 percent passing the 75-µm (No. 200) sieve **(5.2)**. Moreover, five soil fractions are recognized and often used in word descriptions of a material. These five fractions are defined as follows.

Table 4.1 AASHTO Soil Classification System

General classification	Granular materials (35% or less passing US No. 200 sieve)							Silt-clay materials (More than 35% passing US No. 200 sieve)			
	A-1		A-3	A-2				A-4	A-5	A-6	A-7
Group classification	A-1a	A-1b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6
Sieve analysis Percent passing US No. 10 (2 mm) US No. 40 (420 µ) US No. 200 (75 µ)	50 max 30 max 15 max	50 max 25 max	51 max 10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
Characteristics of fraction passing US No. 40 (420 µ) Liquid limit Plasticity index	6 max		Non-plastic	40 max 10 max	41 min 10 max	40 max 11 min	41 min 11 min	40 max 10 max	41 min 10 max	40 max 11 min	41 min 11 min
Group index	0		0	0		4 max		8 max	12 max	16 max	20 max
Usual types of significant constituent materials	Stone fragments gravel and sand		Fine Sand	Silty or clayey gravel and sand				Silty soils		Clayey soils	
General rating as subgrade	Excellent to good							Fair to poor			

Note: A-8 is identified by visual classification, and is not shown in the Table.
Classification procedure: Proceeding from left to right in the chart, the correct group will be found by the process of elimination. The first group from the left consistent with the test data is the correct classification. A-7 group is subdivided into A-7-5 or A-7-6 depending on the plastic limit. For $w_p < 30$, the classification is A-7-6; for $w_p \geq 30$, it is A-7-5.

Table 2-1. Gradation of ILS fine and coarse blends and Grading E and A of AASHTO M147

Sieve Size	Fine w/Clay	Fine w/Silt	Grading E	Coarse w/Clay	Coarse w/Silt	Grading A
1"	100.0	100.0	100	100.0	100.0	100
1/2"	100.0	100.0	100	90.0	90.8	-
3/8"	100.0	100.0	100	64.0	64.0	30-65
# 4	99.8	99.8	55-100	45.9	46.9	25-55
#8	45.2	46.2	-	29.8	30.8	-
# 10	41.6	42.5	40-100	23.6	24.6	15-40
# 40	22.5	23.0	20-50	11.3	11.8	8-20
# 200	7.1	6.9	6-20	7.0	7.0	2-8

Table 2-2. Sources and classifications of ILS soil-aggregate blends according to AASHTO M145

Soil-Aggregate-Type	Soil-Aggregate Classification (AASHTO M145)	Materials	Source
Fine-Graded (Grading E of AASHTO M147)	A3	Crushed Limestone (particle size passing #4 and retained on #8)	Lafarge Frederick, MD
		Washed Concrete Sand (Natural Sand Passing #8)	Aggtrans in Hanover, MD
		Lean Clay (CL)	Aggregate Transport Corporation in Harwood, MD
		Silt (ML)	U.S. Army Corps of Engineers, Waterways Experimental Station in Vicksburg, MS
Coarse-Graded (Grading A of AASHTO M147)	A1	Crushed Limestone	Lafarge Frederick, MD
		Manufactured Fine Aggregate (Limestone Buell Dust)	Lafarge Frederick, MD
		Lean Clay (CL)	Aggregate Transport Corporation in Harwood, MD
		Silt (ML)	U.S. Army Corps of Engineers, Waterways Experimental Station in Vicksburg, MS

2.2 Preliminary Study of AASHTO T180

A preliminary study was conducted at the AMRL laboratory to examine the compactibility of the selected materials and the rationality of the measured density and optimum moisture contents. Three replicates of each of the four materials were compacted using a 4.54-kg manually-operated rammer according to procedures B and D of AASHTO T 180. Prior to the compaction, specific gravity of the soil-aggregate blends were determined according to AASHTO T 84 and T 85 [1]. The specific gravity values were used to calculate the percent moisture that results in 100% saturation of the blends. The measured specific gravities are provided in Table 2-3.

فتحة المنخل ,سعة الفتحات	النسبة المئوية للمار(% بالوزن)				
	التربة(أ)	التربة(ب)	التربة(ج)	التربة(د)	التربة(و)
"١	١٠٠	١٠٠	١٠٠	١٠٠	١٠٠
"٣\٤	١٠٠	١٠٠	٩٧	١٠٠	١٠٠
"٣\٨	١٠٠	٧٥	٩٥	٨٤	٧٥
رقم ١٠	٧٢	٦٥	٩٢	٧٢	٦٥
رقم ٤٠	٧٠	٥٥	٨٠	٦٠	٥٥
رقم ٢٠٠	٨	١٠	٧٠	٤٥	١٠
حد السيولة,%	—	٢٣	٤٥	٣٨	٣٣
حد اللدونة,%	NP	١٧	٣٠	٢٦	١١

Trial Pit no.	Station	Soil Class (AASHTO)	Dry Density (lb/ft^3)	Moisture Content (%)
28	32+700	A-4	109.75	4.0
30	33+350	A-1-a	106.25	3.4
31	33+730	A-1-b	107.56	3.5
33	34+220	A-1-a	126.60	6.5
35	34+920	A-4	110.81	3.8
37	35+760	A-2-4	114.43	2.6
38	36+080	A-1-a	109.75	3.7
39	36+620	A-1-a	118.11	5.2
41	37+130	A-1-a	116.24	3.3
43	38+102	A-1-b	113.87	3.6
43-A-C	38+250	A-1-b	124.23	2.5
45-A-C	39+200	A-1-a	128.66	4.0
46-A-C	39+560	A-1-b	120.61	4.1
78	58+640	A-1-b	98.64	8.2
79	58+820	A-1-a	127.73	4.2
85	60+680	A-1-a	129.98	5.3
86	61+080	A-1-b	129.41	4.5
88	61+880	A-1-b	131.29	4.6

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It is possible that, in this system, the A-3 group is checked before group A-2. It is possible that the division between gravel and sand is made at a smaller size (the sieve No 10) in the AASHTO soil classification system than in the unified system (the No 4 sieve). A soil is a granular material if less than 35% of its weight passes through the No. 200 (# 200) sieve. The classification system was developed for the first time by Hogentogler and Terzaghi in 1929, [1], but it has been reviewed several times since then. We need your help for maintaining this website. Â «Interrelation of cargo, highway and subgrado.» See also unified soil classification system obtained from â € ~ https:/en.wikipedia.org/w/index.php?title=aashto_SOIL_CLASSIFICATION_SYSTEM&oldid=1006095466 »Thank you for Be interested in our services. Some of the groups are divided into subgroups, such as A-1-A and A-1-B. The plasticity index of the A-7-6 subgroup is greater than LL â € "30 plasticity liquid literature in the AASHTO Soil Classification System: Gravel is a material less than 75 mm (3 in.) but retained in a sieve No. 10; thick sand is material that passes through a sieve No. 40; and fine sand is material passing a sieve No. 40 but retained in a sieve No. 200. We are a non-profit group that we managed this website to share documents. Aashto Graph Soil Classification System General Classification Granular materials (35% or less passing the sieve of 0.075 mm) Silt-Clay materials (> 35% passing the sieve of 0.075 mm) Group classification A-1 A -3 A-2 A-4 A-5 A-6 A-7 A-1-A A-1-B A-2-4 A-2-4 A-2-6 A-2-7-5 A -7-5 A-7-5 A-7-6 Sie Ã,% step Ã, Ã, 2.00 mm (No. 10) 50 Máx. Ã, 200) 15 max 25 max 10 max 35 max 35 max 35 35 max 36 min 36 min 36 min 36 min Fraction features that passes 0.425 mm (No. 40) Limit Liquid 40 MAX 41 min 40 max 41 min 40 40 eno ,atad yticitsalp eht dna stnenopmoc eht fo snoitroporp eht gnivaH .tol a su pleh lliw noitanod llams a ,)m/004$ tuoba(tsoc revres ruo revoc ot pleh ruoy deen ew ,gninnur etis ruo peek o T .dnas erom niatnoc b-1-A ni esoht saerehw levarg erom niatnoc a-1-A puorgbus ni slioS .46Â Âã73 :sdaoR cilbuP .03 - LL eht naht ssel ro ot lauqe si puorgbus 5-7-A fo xedni yticitsalP roop ot riaf doog ot tnellecxe edargbus a sa gnitar lareneG slios yeyalc slios ytlis dnas dna levarg yeyalc ro ytlis dnas enif dna levarg ,stnemgarf enots slairetam tneutitsnoc tnacifingis fo sepyt laus 1nim 11 nim 11 xam 01 xam 01 nim 11 nim 11 xam 01 xam 01 .P.N xam 6 xedni yticitsalP nim 14 xam 04 nim 14 xam 04 nim 14 xam 04 Â 14 xam 04 Â Â itcarf fo scitsiretcarahC nim 63 nim 63 nim 63 nim 63 xam 53 xam 53 xam 53 xam 53 xam 01 xam 52 xam 51)002 .oN(mmÂ Ã Â contingency Â¢ nim 15 xam 05 xam 03)04 .oN(mmÂ Ãτ5524.0 Â consistencies ÂΤ¢ ÂΓ¢ ÂΤ¢ ÂτÃ ¢ ÂΤ¢ ÂΓ¢ Â¢ ÂΤ¢ ÂΤ¢ ÂΤ¢ ÂΤ¢ ÂΤ¢ ÂΤ¢ ÂΤNÂΤ¢ ÂTNI 05)01 .oN(mmÂÂ³0 10.2 gnissap %Â Ãτ,sisylanA evei 6-7-A 5-7-A 7-2-A 6-2-A 5-2-A 4-2-A b-1-A a 7-A 6-A 5-A 4-A 2-A 3-A 1-A noitacifissalC puorG)evel)002 .oN(mmÂ ÃFAB570.0 eht gnissap %53>(slairetaM yalC-tliS evel)002 .oN(mmÂ Ãλ570.0 eht gnissap ssel ro %53(slairetaM ralunarG noitacifissalC lareneG)2823D MTSA ro 541 M OTHSAA morf(metsyS noitacifissalC lioS OTHSAA .yalc-tlis dna ,dnas enif ,dnas esraoc ,levarg fo snoitroporp evitaler eht senimreted rif eno ,metsys OTHSAA eht ni noitacifissalc sÂ³³ãålås a enimreted oT .)9291 yaM(.03 - LL eht naht ssel ro ot lauqe si puorgbus 5-7-A fo xedni yticitsalP :etoN roop ot riaf doog ot tnellecxe edargbus a sa gnitar lareneG slios yeyalc slios ytlis dnas dna levarg yeyalc ro ytlis dnas if dnas dna levarg ,stnemgarf enots slairetam tneutitsnoc tnacifingis fo sepyt lausU nim 11 nim 11 xam 01 xam 01 nim 11 nim 11 xam 01 xam 01 .P.N xam 6 xednI yticitsalP nim 14 xam 04 nim 14 noc oicivres ortseun ritrapmoc a sonedºÃya rovaf roP Â .opurg nu ed ortned Â nu ed odarepse otneimidner le racifitnauc arap opurg ed ecidnÃ nu esraluclac edeup ,s¡ÃmedA .sareterrac ed n³Ãiccurtsnoc ed senif noc sodir¡Ã-oleus salczem y soleus ed n³Ãicacifisalc al arap aÃug omoc azilitu es y ,etropsnarT y satsipotuA ed selatatsE soiranoicnuF ed anaciremA n³ÃicaicosA al rop odallorrased euf OTHSAA soleuS ed n³ÃicacifisalC ed ametsiS lE .3-A o 1-A sopurg sol arap soiretirc sol nelpmuc on euq Â ¢Ã aziretnorf aenÃl Â ¢Ã seralunarg selairetam ed dadeirav narg anu eneitnoc 2-A opurg lE .3-A a 1-A sopurg sol ne nacifisalc es seralunarg selairetam soL .odarg-bus omoc lairetam nu ed etropos de rolav le y avitaler dadilac al odnof a s¡Ãm raulave arap opurg ed ecidnÃ nu raluclac edeup es ,satlum neneitnoc euq sopurg sol ed ortneD .grebrettA ed setimÃl sol a esab ne acifisalc es y asomil allicra ed se 002 ºÂN zimat le rop asap euq lairetam lE .ocits¡Ãlp on omil ed sedaditnac sa±Ãeuqep renetnoc nedeup euq sanif sanera etnemacipÃt nos 3-A opurg led soleus soL .K ,ihgazreT ;.A.C ,relgotnegoH ^ saicnerefeR .sacits¡Ãlp etnematla sallicra etnemacipÃt nos 7-A opurg led sol y ,sargam sallicra etnemacipÃt nos 6-A opurg led soleus soL !olucÃtra etse ed sotpecnoc sol ed asneip ©Ãuq soiratnemoc sol ne rebas sonag¡ÃH¡Â lairotuT oediV oleus led n³ÃicacifisalC OTHSAAÂ ¢Ã 01 IP) (Â ¢Ã 51 F 10.0 +] [+) (Â Â ¢Ã 04 LL 500.0 2.0) (Â Â ¢Ã 53 F opurg ed ecidnÃ :acirÃpme alumr³Ãf etneiugis al nºÃges aluclac es opurg ed ecidnÃ lE .sesab y sesabbus ,sodargbus ,sareterrac ed senelparret arap adarepse avitaler dadilac us nºÃges ,7-A a 1-A sodanimoned ,soiramirp sopurg eteis ne soleus sol acifisalc OTHSAA soleuS ed n³ÃicacifisalC ed ametsiS le ,soiretirc sorto nºÃges soleuS ed n³ÃicacifisalC al ed s¡ÃmedA .soiretirc sol noc alpmuc oleus le lauc al arap n³Ãicacifisalc anu rartnocne atsah ahcered a adreiuqzi ed acifirev y OTHSAA n³Ãicacifisalc ed salbat savitanretla sod sal ed anu ,sadacifisalc ,sadacifisalc neib etnemlamron avarg ed salczem nos 1-A omoc sodacifisalc soleus soL .7-A a 4-A sopurg sol ne neac y asomil allicra ed nos 002 ºÂN zimat le rop % 53 led s¡Ãm nesap euq soleus soL .sogima Sand, and fine sand. Soils in group A-4 are alms, while those of Group A-5 are a high-plasticized elastic slime. The plasticity index of the A-7-6 subgroup is greater than LL - 30. Secondly, if the fines are determined, atterberg's limits are determined and the plasticity index is calculated. calculated.

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