

ARIZONA DEPARTMENT OF TRANSPORTATION

ASPHALTIC CONCRETE TABULATION – IGNITION FURNACE

44-9372 R10/25 azdot.gov USE CAPITAL LETTERS LAB NUMBER PUR-**TEST UNIT NUMBER** MATL **TYPE** POSE SIZE SIZE % LAB LOT OR SUFFIX **TEST NO** SAMPLED BY MO DAY YEAR TIME MILITARY SAMPLED FROM LIFT NO. **RDWY** STATION PROJECT ENGINEER / SUPERVISOR **ORIGINAL SOURCE** PROJECT NUMBER TRACS NUMBER **REMARKS CONTACT NUMBER** 100 **AASHTO T308** COARSE SIEVE TOTAL % RET COMPACTION **WEIGHTS RETAINED** % PASS **SPECS** a.Wet Mass of Moisture 3″ Marshall = M Gyratory = G Core = C Sample 2 1/2 b.Dry Mass of Moisture g **RICE** Sample 2″ Sample Max. c.Moisture Content T329 [(a-b)/b] x 100 1 1/2 Sp. Gr. (Gmm) Sample Max. Density pcf [(Gmm) x (62.3)] 3/4" 1/2" d.Mass of Basket Assembly **MARSHALL** 3/8 Average Bulk e.Mass of Sample and O.D. Sp. Gr. (Gmb) g 1/4" Basket Assembly Average Bulk Density #4 pcf f.Initial Mass of Sample [(Gmb) x (62.3)] g (e-d) #8 Air Voids = % - #8 g.lgnition Furnace Set Temperature °C Total = i (Rounded) Average Bulk Density x 100 h.Mass of Sample and Max Density Basket Assembly After Ignition g From Rice Test % Pass #8 Wt. of Pass #8 Split Stability lbs i.Mass of Sample g After Ignition (h-d) WEIGHTS RETAINED % RET % PASS **SPECS** Flow 0.01 in #10 j.Uncorrected Asphalt Binder 0/ Content [(f-i)/f] x 100 #16 **GYRATORY** Average Relative Density (% Gmm) at Ndesign #30 k.Asphalt Binder Content (±) pcf Calibration Factor #40 i.Corrected Assobalt % Air Voids = #50 Binder Content (j-k-c-l) #100 Average Relative m.Design Asphalt Binder % 100 -Density % (Gmm) Content #200 at Ndesign #200 n.Elapsed Time of Test (minutes) Total q = Dry Weight Elutri-ation Corrected = p - q% Pass No. 200 % Pass No. 200 Correction Factor (±)

RECEIVED DATE TEST OPERATOR AND DATE

SUPERVISOR AND DATE

If samples were fan dried, the maximum density is determined utilizing "Wsd" weights shown below:

Rice Test (AASHTO T209)									
FLASK NUMBER OR I.D.	" Wf " WT. OF FLASK	"Wmm" WT. OF SAMPLE IN AIR Wfs - Wf	"B" WT. OF FLASK + WATER	"C" WT. OF FLASK + SAMPLE + WATER Wa - Wp	"Vvm" VOLUME OF VOIDLESS MIX Wmm+B-C	"Gmm" MAXIMUM SPECIFIC GRAVITY Wmm Vvm	SURFACE	"Vvm" VOLUME OF VOIDLESS MIX Wsd + B - C	"Gmm" MAXIMUM SPECIFIC GRAVITY Wmm Vvm
FLASK SAMPLE OR I.D.					REMARKS:				
WT. OF FLASK + SAMPLE, "Wfs"									
WT. OF FLASK	(+ SAMPLE + SS PLATE, " Wa "								
WT. OF GLASS									
Specimens compacted by: Hand Specimen I.D. Specimen Height (0.001 in.) Bulk Specific Gravity, Bulk Densit A = mass, in grams, of specimen in air B = mass, in grams, of SSD specimen in air C = mass, in grams, of specimen in water Bulk O.D. Sp. Gr = A/B - C Massorption = B - A/B - C Bulk Density (lbs./cu.ft.) Marshall Stability Reading Stability Correlation Ratio		Mechanical			od A	Rice Test			
Specimen I.D.	npaction (AASI), at Ninitial (•	=	(ed.)		
Height, (0.01mm), at Ndesign (gyrations) =						y compactor			
Height, (0.01mm), at Nmax (gyrations) = ()		Model			
Bulk Specific Gra	avity, Bulk Density,	, & Absorption of	Specimens (ARIZ	Z 415, Method A	or Method C])			
at Nmax in A B = Mass, in gra at Nmax in A C = Mass, in gra at Nmax in N Gmb = Bulk Spe	ams, of SSD spec Air ams, of specimen Water ecific Gravity nen at Nmax = B	eimen A 3 - C	=			AIR VO		00 - () =	=%
**Relative Density (%Gmm) of each specimen at Ndesign = () AVERAGE =									

** Relative Density (% Gmm)
of each specimen
at Ndesign = (Maximum S

(Gmb at Nmax) x (Height at Nmax)

(Maximum Specific Gravity "Gmm") x (Height at Ndesign)