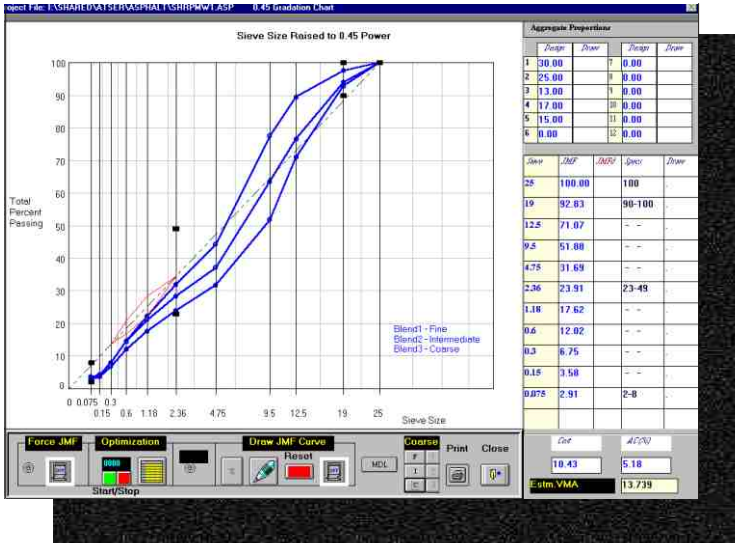


ASPHALT-IT™



Asphalt-IT™ is designed to assist civil engineers, construction materials testing laboratories, contractors and asphalt materials suppliers to design their asphalt mixtures.

Key Features Include:

Aggregate Gradation Optimization

State-of-the-Art Aggregate Blending Capabilities

SUPERPAVE™, Marshall and Hveem Mix Design Capabilities

National Specification Database

Mix Design Review

Laboratory QC/QA Support

Report Generation Characterization

Mix Design Troubleshooting Assistance

The "ATSER Method" for Mix Design

The "ATSER Method" allows the user to predict the volumetric and mechanical properties without trial and error laboratory studies.

Estimated Properties include:

Bulk Specific Gravity of Molded Specimens (Gmb)

Total Voids in Mixture (VTM)

Voids in Mineral Aggregate (VMA)

Voids Filled with Asphalt (VFA)

Superpave™ Densification Curves

Marshall Stability and Flow

Hveem Stability

JOB MIX FORMULA SHEET

Project Name : Houston October 21, 1998
 Project No. : 1-45-34789 Lab No. : 168

Aggregate Proportions

Blend	#1 Stone	1/2 in Chip	3/8 in Chip	Mfg Sand	Ser. Sand
Fine	10.0%	15.0%	30.0%	31.0%	14.0%
Intermediate	25.0%	15.0%	22.0%	18.0%	20.0%
Coarse	30.0%	25.0%	13.0%	17.0%	15.0%

SHRP Level 1 19 mm

Sieve Size	#1 Stone	1/2 in Chip	3/8 in Chip	Mfg Sand	Ser. Sand	Fine JMF	Inter. JMF	Coarse JMF	Spec. Control Pts.	Restricted Zone
25	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	-
19	76.1	100.0	100.0	100.0	100.0	97.6	94.0	92.8	90-100	-
12.5	14.3	87.1	100.0	100.0	100.0	89.5	76.6	71.1	-	-
9.5	3.8	26.0	94.4	100.0	99.8	77.6	63.6	51.9	-	-
4.75	2.1	3.1	4.8	95.5	89.5	44.3	37.1	31.7	-	-
2.36	1.9	2.4	3.0	63.5	76.7	31.9	29.3	23.9	23-49	34.6-34.6
1.18	1.9	2.4	3.8	38.6	63.3	22.2	21.1	17.6	-	22.3-28.3
0.6	1.8	2.3	2.6	21.9	45.6	14.5	14.4	12.0	-	16.7-20.7
0.3	1.8	2.2	2.5	11.0	23.1	7.9	7.9	6.8	-	13.7-13.7
0.15	1.7	2.1	2.4	5.7	8.4	4.1	4.0	3.6	-	-
0.075	1.6	1.9	2.2	5.7	4.7	3.3	3.1	2.9	2-8	-

Formed by: _____ Inspector's Signature: _____

Example of Job Mix Formula Form



Asphalt-IT™
 U.S. Patent #08/766,714
 Patented Process