

# Asphalt Cement - Product Data Sheet



## Description and Physical Properties

AC (Asphalt Cements) are produced by blending selected asphalts to achieve required DOT specifications, or any other AC graded by customized penetration requirements. Asphalt Cements are used for a variety of applications, including surface treatment, pre-coating, recycling, hot mixed cold laid asphalt mixtures, and any other custom applications.

**Specifications** Conform to Texas Department of Transportation Specifications-Item 300.2.1:

Property	Test Procedure	Viscosity Grade									
		AC-0.6		AC-1.5		AC-3		AC-5		AC-10	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Viscosity 140°F, poise 275°F, poise	T 202	40	80	100	200	250	350	400	600	800	1,200
		0.4	-	0.7	-	1.1	-	1.4	-	1.9	-
Penetration, 77°F, 100g, 5 sec.	T 49	350	-	250	-	210	-	135	-	85	-
Flash point, C.O.C., °F	T 48	425	-	425	-	425	-	425	-	450	-
Solubility in trichloroethylene, %	T 44	99.0	-	99.0	-	99.0	-	99.0	-	99.0	-
Spot test	Tex-509-C	Neg.		Neg.		Neg.		Neg.		Neg.	
Tests on residue from Thin-Film Oven Test: Viscosity, 140°F, poise Ductility, <sup>1</sup> 77°F 5 cm/min., cm	T 179										
	T 202	-	180	-	450	-	900	-	1,500	-	3,000
	T 51	100	-	100	-	100	-	100	-	100	-

1. If AC-0.6 or AC-1.5 ductility at 77°F is less than 100 cm, material is acceptable if ductility at 60°F is more than 100 cm.

## Storage and Application temperatures

Type Grade	Application		Storage
	Recommended range, °F	Maximum allowable °F	Maximum °F
AC-0.6, AC-1.5, AC-3.0	200 - 300	350	350
AC-5, AC-10	275 - 350	350	350

## Typical Material Use

Material Application	Typical used material
Surface treatment	AC-5, AC-10
Pre-coating	AC-5, AC-10
Hot-mixed cold-laid asphalt mixtures	AC-0.6, AC-1.5, AC-3
Recycling	AC-0.6, AC-1.5, AC-3

## Storage and Handling

Before being filled, tanks and trucks should be examined for possible contaminants. Store products by grade type, if possible, to eliminate contamination.

## Martin Asphalt Quality

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