

Medium Curing Cutback Asphalts Product Data Sheet



Description and Physical Properties

Medium curing cutback asphalts are blends of selected asphalts and solvents. They are used for a variety of applications, including tack, patch mixes and cool temperature surface treatments.

Specifications Conform to Texas Department of Transportation Specifications-Item 300.2:

Property	Test Procedure	Type-Grade							
		MC-30		MC-250		MC-800		MC-3000	
		Min	Max	Min	Max	Min	Max	Min	Max
Kinematic viscosity, 140°F, cSt	T 201	30	60	250	500	800	1,600	3,000	6,000
Water, %	T 55	–	0.2	–	0.2	–	0.2	–	0.2
Flash point, T.O.C., °F	T 79	100	–	150	–	150	–	150	–
Distillation test:	T 78								
Distillate, percentage by volume of total distillate to 680°F									
to 437°F		–	25	–	10	–	–	–	–
to 500°F		40	70	15	55	–	35	–	15
to 600°F		75	93	60	87	45	80	15	75
Residue from distillation, volume %		50	–	67	–	75	–	80	–
Tests on distillation residue:									
Penetration, 100 g, 5 sec., 77°F	T 49	120	250	120	250	120	250	120	250
Ductility, 5 cm/min., 77°F, cm ¹	T 51	100	–	100	–	100	–	100	–
Solubility in trichloroethylene, %	T 44	99.0	–	99.0	–	99.0	–	99.0	–
Spot test	Tex-509-C		Neg.		Neg.		Neg.		Neg.

1. If the penetration of residue is more than 200 and the ductility at 77°F is less than 100 cm, the material is acceptable if its ductility at 60°F is more than 100 cm.

Typical Material Use

Material Application	Typically Used Materials
Surface treatment (cool weather)	MC-250, MC-800, MC-3000
Patching mix	MC-800
Prime	MC-30

Storage and Application Temperatures

Type-Grade	Application		Storage Maximum (°F)
	Recommended Range, °F	Maximum Allowable (°F)	
MC-30	70–150	175	175
MC-250	125–210	240	240
MC-800	175–260	275	275
MC-3000	225–275	290	290

Storage and Handling

Before being filled, tanks and trucks should be examined for possible contaminants. Cutback asphalts should be kept away from ignition sources.

Martin Asphalt Quality

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