



# WORLD OIL®

Your Premier Manufacturer of  
Roofing Asphalt Products



## Type IV Carton Asphalt

World Oil operates one of the largest carton roofing pouring facilities in the United States, manufacturing high quality Type 3 and Type 4 carton asphalt along with Type 3 bulk asphalt. We also produce a variety of roof coatings, windseals, and saturants used by our customers to manufacture roof shingles and other critical residential and industrial roof sealants. We are dedicated to supplying the best roofing products to local contractors, government agencies, and roofing manufacturers that provides you with comfort, convenience, and reliability.

With over 80 years of experience, World Oil is one of the few refineries in California. We are committed to our employees; the environment, safety, providing quality petroleum products, and exceptional customer service while earning the relationships of lifetime business partners.

Using dependable crude sources, and our ASSHTO accredited lab, we can ensure that the products leaving our facility consistently meet all ASTM D-312 specifications. Our asphalt products require less heat and cover more square footage than the competitors'. In addition, the less heat that is needed, the less energy that is used, resulting in more contractor savings and less risk to employee safety.

All published specifications are verified by third party laboratories.

### Required Type 4 ASTM D-312 Specifications

ASTM D-312 Test Method	Specifications		
D-36 Softening Point	Minimum	Maximum	
	210° F	225° F	
D-92 Flashpoint (COC)	Minimum		
	575° F		
D-5 Penetration @	32° F	77° F	115° F
	6 min.	12-25	75 max.
D-113 Ductility @77° F, cm	1.5 min.		
D-2042 Solubility, WT%	99.4% min.		
D-4402 Machine Spread EVT @ 75 CPS	485° F max.		
D-4402 Hand Mop EVT @ 125 CPS	455° F max.		

### World Oil Type 4 Physical Characteristics

ASTM D-312 Test Method	Specifications		
D-36 Softening Point	Minimum	Maximum	Typical
	218°F	225°F	225°F
D-92 Flashpoint (COC)	Minimum		Typical
	575°F		620°F
D-5 Penetration @	32°F	77°F	115°F
	9	15	29
D-113 Ductility @77°F, cm	2.0cm		
D-2042 Solubility, WT%	99.8%		
D-4402 Machine Spread EVT @ 75 CPS	485°F		
D-4402 Hand Mop EVT @ 125 CPS	455°F		

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