



ValAro Aromatic Extract Oil Specifications

ValAro Aromatic Extracts are high boiling, aromatic oils suitable for use in a wide variety of process oil applications. ValAro extracts are ASTM Type 101 and 102 rubber process oil with typical total aromatics above 80%. This high level of aromatic content, low aniline point, and high flash point provides the rubber mixer several benefits:

- 1.) Excellent oil take up time
- 2.) Shorter mixing cycles
- 3.) Excellent carbon black dispersion
- 4.) Minimum oil losses in the curing process
- 5.) Increased oil loading without oil bleed out

ValAro extracts are recommended for use with Styrene Butadiene, Neoprene and Cis-Polybutadiene.

METHOD	TEST	ValAro 100	ValAro 130A	ValAro 45
		SPECIFICATIONS		
Visual	Appearance	Dark Colored Liquid	Dark Colored Liquid	Dark Colored Liquid
D445	Viscosity @ 100°C, cSt	15.5/23	24.0/30.0	4.5/6.0
D445	Viscosity @ 40°C, cSt			Report
D2161	Viscosity @ 210°F, SUS	82/115	118/149	
D4052	API Gravity	9.0/14.0		
D4052	Specific Gravity @ 15.6°C KG/DM3	0.96/1.008	0.990/1.017	
D97	Pour Point, °C	30 Max	30 Max	20 Max
D92	Flash, COC, °C	210 Min	210 Min	190 Min
D4294	Sulfur, Wt %.	5.5 Max	5.5 Max	
D611	Aniline Pt., ° F	130 Max	125 Max	110 Max
D664	Neutralization Number	0.5 Max	0.5 Max	0.5 Max
D2501	VGC	0.90-0.95	0.925-0.965	
D1747	Refractive Index at 20°C	1.5466/1.5695	1.557/1.585	1.5475/1.5625
D2159	Refractive Intercept	1.0590/1.0750	1.0650/1.0750	
D972	Evaporation Loss, Wt.% 22 Hrs.@ 225 °F	0.8 Max	0.8 Max	
V1414	Extract in Solvent, ppm	300 ppm Max	100 ppm Max	100 ppm Max
D4928	Water Content - Karl Fisher	300 ppm Max	300 ppm Max	300 ppm Max
D2007	Clay-Gel Analysis			
	Asphaltenes, Wt.%	0.1 Max	0.1 Max	Report
	Polars, Wt.%	18 Max	7/16	Report
	Aromatics, Wt%	55 Min	65 Min	Report
	Saturates, Wt.%	30 Max		Report

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