

Carbon Black Analytical Testing

ASTM Ref.	Test Method	Sample Requirement	Price
D2414	Oil Absorption Number (OAN)	100 g	\$200
D3493	Oil Absorption Number – Compressed Sample (COAN)	100 g	\$220
D1510	Iodine Absorption Number	2 g	\$280
D6556	Total and External Surface Area by Nitrogen Adsorption	2 g	\$350
D3265	Tint Strength	2 g	\$270
D1618	Transmittance of Toluene Extract	10 g	\$210
D1509-B	Heating Loss by Moisture Balance (Moisture)	30 g	\$130
D1509-A	Heating Loss by Oven Method (Moisture)	30 g	\$250
D1506-A	Ash Content by Muffle Furnace	30 g	\$160
D1514	Sieve Residue		
	#35 Mesh	600 g	\$200
	#325 Mesh	200 g	\$200
	#500 Mesh	200 g	\$300
D1508	Pelleted Fines and Attrition	200 g	\$160
D5230	Automated Individual Pellet Hardness	500 g	\$250
D1511	Pellet Size Distribution	200 g	\$230
D1513	Pour Density	500 g	\$180
D1937	Mass Strength	1000 g	\$300

Carbon Black Analytical Testing (continued)

ASTM Ref.	Test Method	Sample Requirement	Price
D1512	pH Value	10 g	\$250
D1619-B	Sulfur Content by XRF	10 g	\$200
--	Iron Content of Carbon Black (Wet Method)	20 g	\$300
D6370	Compositional Analysis by Thermogravimetry (TGA)	1 g	\$350
ISO 15825	Aggregate Size Distribution by Disc Centrifuge Photosedimentometry (ASD)	1 g	\$300
--	SEM (Scanning Electron Microscopy)		\$500/hr

Oil Testing

ASTM Ref.	Test Method	Sample Requirement	Price
D287	API Gravity of Petroleum Products (Hydrometer Method)	300 ml	\$200
D482	Ash from Petroleum Products	75 g	\$200
D7679	Sulfur Content, Method B: X-Ray Fluorescence	10 g	\$200
--	Toluene Insoluble Content	10 g	\$250
D1796	Water and Sediment by the Centrifuge Method	75 ml	\$350
D97	Pour Point of Petroleum Products	50 ml	\$200
D93	Flash Point by Pensky-Martens Closed Cup Tester	150 ml	\$300
--	Carbon, Hydrogen, Nitrogen, and Oxygen Content of Carbon Black Oil	200 ml	\$300

Rubber Property Testing

ASTM Ref.	Test Method	Price
--	Compounding	\$100/hr
D3191	Carbon Black Evaluation in SBR	\$200/hr
D3192	Carbon Black Evaluation in NR	\$200/hr
--	Curing	\$150/hr
D412	Tensile, Elongation, and Modulus	\$200
D5289	Vulcanization Characteristics by Moving Die Rheometer (MDR)	\$125
D1646	Mooney Viscosity (Mooney Viscometer)	\$125
D1054	Goodyear-Healey Rebound	\$150
D2240	Durometer Hardness, Type A	\$100
D395-B	Compression Set, Method B	\$200

Submitting a Sample for Testing

Please provide a detailed **Purchase Order** specifying:

- The sample(s) you are sending (i.e.: Description, Sample#, Lot Number#,...)
- The test(s) you are requesting

Provide Safety Data Sheet (SDS) if available. Please provide enough material to complete requested testing. Place the sample material and documentation in appropriate packaging and ship to:

TOKAI CARBON CB
Attn: Leszek Nikiel
4825 N. Freeway
Fort Worth, TX 76106

Then, please contact us by phone or email and let us know that your sample is on the way:

Dr. Leszek Nikiel | lnikiel@tokaicarboncb.com | 817-381-4137