BOER 100

Naphthenic Base Oil

This severely hydrotreated naphthenic base oil is primarily used in the metal working and compounder blending industries. It has a low pour point, a low odor level, excellent color, and resistance to discoloration by heat or ultraviolet light.

TEST DESCRIPTION		TEST METHOD	SPECIFICATIONS		MARKETING VALUES
			Min	Max	
Physical Properties					
1	Viscosity,SUS at 100°F(37.8℃)	ASTM D 445	100	121	112
2	Viscosity,SUS at 210°F(98.9℃)	ASTM D 445			38.1
3	Viscosity,cSt at 40℃(104°F)	ASTM D 341	18.9	22.8	21.1
4	Viscosity,cSt at 100℃(212°F)	ASTM D 341			3.5
5	API Gravity,60°F(15.6℃)	ASTM D 1250			24.6
6	Specific Gravity,60°F(15.6℃)	ASTM D 4052			0.9065
7	Viscosity- Gravity Constant	ASTM D 2501			0.8686
8	Density,lbs/gal at 60°F	ASTM D 1250			7.549
9	Molecular Weight	ASTM D 2502			298
10	Flash Point,COC,°F(℃)	ASTM D 92	325(163)		350(177)
11	Color,ASTM	ASTM D 6045		1.0	L0.5
12	Pour Point,°F(℃)	ASTM D 5949		-30(-34)	-60(-51)
13	Water Content	ERTM-1	PASS		PASS
14	Appearance	ERTM-2	PASS		PASS
Chemical Properties					
1	Acid Number,mg KOH/g	ASTM D 664		0.05	0.01
2	Aniline Point, °F(℃)	ASTM D 611	155.0(68.3)	170.0(76.7)	165.8(74.3)
3	Sulfur,wt%	ASTM D 4294		0.050	0.025
4	Sulfur,ppm	ASTM D 4294		500	250
Health and Safety Properties					
1	Polycyclic Aromatic Compounds,wt%	IP 346		3	< 3
2	Modified Ames Assay	ASTM E 1687	PASS		PASS
3	FDA Regulation	21 CFR 178.3620 (C)	PASS		PASS