

# BOER 60

## 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	
<b>Physical Properties</b>					
1	Viscosity, SUS at 100°F(37.8°C)	ASTM D 445	50.0	65.0	59.5
2	Viscosity, SUS at 210°F(98.9°C)	ASTM D 445			34.0
3	Viscosity, cSt at 40°C(104°F)	ASTM D 341		12.0	9.4
4	Viscosity, cSt at 100°C(212°F)	ASTM D 341		3.0	2.3
5	API Gravity, 60°F(15.6°C)	ASTM D 1250			28.1
6	Specific Gravity, 60°F(15.6°C)	ASTM D 4052			0.8866
7	Viscosity- Gravity Constant	ASTM D 2501			0.8576
8	Density, lbs/gal at 60°F	ASTM D 1250			7.383
9	Molecular Weight	ASTM D 2502			265
10	Flash Point, COC, °F(°C)	ASTM D 92	295(146)		310(154)
11	Color, ASTM	ASTM D 6045		0.5	1.0.5
12	Pour Point, °F(°C)	ASTM D 5949		-45(-43)	-80(-62)
13	Water Content	ERTM-1	PASS		PASS
14	Appearance	ERTM-2	PASS		PASS
<b>Chemical Properties</b>					
1	Acid Number, mg KOH/g	ASTM D 664		0.04	0.01
2	Aniline Point, °F(°C)	ASTM D 611	160.0(71.1)	180.0(82.2)	167.0(75.0)
3	Sulfur, wt%	ASTM D 4294		0.050	0.007
4	Sulfur, ppm	ASTM D 4294		500	70
<b>Health and Safety Properties</b>					
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

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