

22777 Springwoods Village Parkway,  
Spring, TX 77389

**SAXBT14X**

	Whole crude	Butane and Lighter IBP - 60F	Lt. Naphtha C5 - 165F	Hvy Naphtha 165 - 330F	Kerosene 330 - 480F	Diesel 480 - 650F	Vacuum Gas Oil 650 - 1000F	Vacuum Residue 1000F+
Cut volume, %	100.0	1.7	6.2	16.2	15.5	18.0	28.2	14.2
API Gravity,	34.6	118.9	83.0	53.4	42.0	33.5	24.5	11.3
Specific Gravity (60/60F),	0.852	0.565	0.660	0.765	0.815	0.858	0.907	0.991
Carbon, wt %	86.3	82.5	83.9	85.9	86.1	86.5	86.7	86.5
Hydrogen, wt %	13.4	17.5	16.1	14.1	13.9	13.3	12.8	12.4
Pour point, F	(5.8)			(131.1)	(71.6)	(2.4)	89.6	118.3
Neutralization number (TAN), MG/GM	0.586	0.034	0.039	0.196	0.559	1.071	0.796	0.238
Sulfur, wt%	0.245	0.000	0.000	0.005	0.033	0.135	0.328	0.706
Viscosity at 20C/68F, cSt	9.4	0.4	0.6	0.9	1.8	6.9	186.6	10,567,385.0
Viscosity at 40C/104F, cSt	5.3	0.4	0.5	0.7	1.4	4.0	56.8	429,294.0
Viscosity at 50C/122F, cSt	4.2	0.4	0.4	0.6	1.2	3.2	35.4	117,662.2
Mercaptan sulfur, ppm	3.0	0.0	0.1	0.3	0.4	0.3	0.1	0.0
Nitrogen, ppm	1,191.3	-	-	0.4	10.3	91.2	940.7	5,381.2
CCR, wt%	2.9						0.2	17.0
N-Heptane Insolubles (C7 Asphaltenes), wt%	0.1						-	0.7
Nickel, ppm	8.4							51.0
Vanadium, ppm	1.9							11.4
Calcium, ppm	1.5							
Reid Vapor Pressure (RVP) Whole Crude, psi	6.2							
Hydrogen Sulfide (dissolved), ppm	-							
Salt content, ptb	2.5							
Paraffins, vol %	28.9	100.0	82.5	37.4	34.6	30.2	18.0	4.5
Naphthenes, vol %	41.6	-	17.5	49.5	49.5	49.2	46.8	20.6
Aromatics (FIA), vol %	29.5	-	-	13.1	15.9	20.6	35.2	75.0
Distillation type, TBP								
IBP, F	14.1		60.9	166.0	330.8	480.9	651.4	1,001.3
5 vol%, F	127.1		68.4	174.5	337.6	488.6	663.9	1,013.0
10 vol%, F	189.2		72.8	183.6	345.3	497.1	677.9	1,026.4
20 vol%, F	290.2		81.6	201.0	360.6	514.2	706.7	1,054.7
30 vol%, F	388.5		98.9	217.9	375.8	531.1	736.5	1,085.4
40 vol%, F	484.3		106.7	234.2	390.9	547.9	767.4	1,118.9
50 vol%, F	578.0		123.8	250.3	405.9	564.6	799.7	1,156.2
60 vol%, F	674.0		133.0	266.3	420.8	581.4	833.8	1,198.3
70 vol%, F	780.3		141.6	282.2	435.7	598.3	870.2	1,247.2
80 vol%, F	907.6		149.7	298.1	450.4	615.3	909.5	1,306.4
90 vol%, F	1,084.6		157.5	314.1	465.2	632.5	952.3	1,381.8
95 vol%, F	1,221.1		161.3	322.0	472.6	641.2	975.5	1,430.0
EP, F	1,447.1		164.6	329.2	479.3	649.1	997.5	1,502.0
Freeze point, F				(119.3)	(60.2)	10.3		
Smoke point, mm				27.6	21.7	15.0		
Naphthalenes (D1840), vol%					1.9	8.5		
Viscosity at 100C/212F, cSt	1.8	0.3	0.3	0.4	0.7	1.5	7.1	1,360.8
Viscosity at 150C/302F, cSt	1.0	0.2	0.2	0.3	0.5	0.9	2.8	113.6
Cetane Index 1990 (D4737),				25.9	40.8	51.9		
Cloud point, F				(126.7)	(67.4)	2.1		
Aniline pt, F					131.2	160.1	193.6	