

22777 Springwoods Village Parkway,
Spring, TX 77389

TERGC11X

	Butane and Whole crude	Lt. Naphtha IBP - 60F	Hvy Naphtha 165 - 330F	Kerosene 330 - 480F	Diesel 480 - 650F	Vacuum Gas Oil 650 - 1000F	Vacuum Residue 1000F+
Cut volume, %	100.0	1.2	57.2	33.0	6.0	2.3	0.3
API Gravity,	73.1	115.5	86.5	57.2	45.7	39.3	36.6
Specific Gravity (60/60F),	0.692	0.573	0.649	0.750	0.798	0.829	0.842
Carbon, wt %	84.7	82.6	83.6	86.0	86.0	86.1	85.6
Hydrogen, wt %	15.2	17.4	16.4	14.0	14.0	13.9	14.3
Pour point, F	(32.8)			(119.2)	(48.6)	11.4	98.4
Neutralization number (TAN), MG/GM	0.010	0.007	0.007	0.007	0.014	0.067	0.215
Sulfur, wt%	0.002	0.000	0.000	0.000	0.008	0.030	0.084
Viscosity at 20C/68F, cSt	0.5	0.4	0.5	0.7	1.7	5.2	49.6
Viscosity at 40C/104F, cSt	0.4	0.4	0.4	0.6	1.3	3.2	20.3
Viscosity at 50C/122F, cSt	0.4	0.3	0.4	0.5	1.1	2.6	14.1
Mercaptan sulfur, ppm	3.0	0.0	0.1	1.0	1.6	0.6	0.1
Nitrogen, ppm	2.2	-	-	0.0	1.9	24.6	177.0
CCR, wt%	0.0						0.3
N-Heptane Insolubles (C7 Asphaltenes), wt%	0.0						-
Nickel, ppm	0.5						
Vanadium, ppm	0.5						
Calcium, ppm	0.5						
Reid Vapor Pressure (RVP) Whole Crude, psi	10.9						
Hydrogen Sulfide (dissolved), ppm	-						
Salt content, ptb	1.0						
Paraffins, vol %	73.0	100.0	93.5	45.6	59.1	47.7	76.2
Naphthenes, vol %	18.4	-	6.5	36.9	18.1	41.1	16.5
Aromatics (FIA), vol %	8.5	-	-	17.5	22.7	11.3	7.3
Distillation type, TBP							
IBP, F	52.1		61.2	165.4	330.5	480.4	650.4
5 vol%, F	71.9		69.9	169.1	334.5	484.3	654.4
10 vol%, F	80.8		75.7	173.4	339.2	488.7	659.3
20 vol%, F	95.9		84.8	182.7	349.3	497.7	670.3
30 vol%, F	111.3		93.4	193.1	360.7	507.2	684.4
40 vol%, F	127.9		102.0	205.2	373.2	517.2	703.6
50 vol%, F	146.7		110.8	218.2	387.2	528.1	736.3
60 vol%, F	169.2		120.1	231.7	402.7	540.3	908.7
70 vol%, F	199.5		129.9	247.2	419.8	554.7	937.6
80 vol%, F	240.2		140.5	266.4	438.3	573.4	957.9
90 vol%, F	312.7		152.1	292.1	458.4	600.7	978.2
95 vol%, F	404.8		158.3	308.9	469.0	620.9	988.9
EP, F	623.0		164.3	327.7	478.9	646.4	998.9
Freeze point, F				(106.9)	(37.5)	21.9	
Smoke point, mm				24.0	21.7	17.8	
Naphthalenes (D1840), vol%					2.0	9.3	
Viscosity at 100C/212F, cSt	0.3	0.3	0.3	0.4	0.7	1.2	4.0
Viscosity at 150C/302F, cSt	0.3	0.2	0.2	0.3	0.4	0.8	1.9
Cetane Index 1990 (D4737),				24.0	44.9	60.4	
Cloud point, F				(114.7)	(43.7)	16.7	
Aniline pt, F					139.8	160.8	182.4