



Crude **UPPER ZAKHUM**

Country United Arab Emirates

TBP  
DISTILLATION

Density at 15°C, kg/m3	855.1	Assay Date	01-Jan-12	°C	wt%	vol%	°C	wt%	vol%
°API	33.9	Assay Quality	Good	080	8.27	11.28	460	70.67	75.11
Bbl/mt	7.367			090	9.48	12.74	480	73.64	77.81
Acidity, mg KOH/g	0.05			100	10.79	14.30	500	76.23	80.14
Sulphur, wt%	1.820			120	13.68	17.66	520	78.52	82.19
Hydrogen Sulphide, mg/kg	0			140	16.89	21.30	540	80.63	84.05
Mercaptan Sulphur, mg/kg	28			160	20.31	25.10	560	82.68	85.84
Viscosity, cSt at 10 °C	12.4			180	23.79	28.90	580	84.70	87.59
50 °C	4.5			200	27.15	32.52			
Pour Point, °C	-37			220	30.30	35.86			
Total Nitrogen, wt%	0.087			240	33.31	39.01			
Wax, wt%	-		wt% vol%	260	36.46	42.26			
Wax Appearance Temperature, °C	-			280	40.11	45.98			
RVP at 37.8 °C, kPa	52	Ethane	0.03 0.07	300	44.14	50.01			
Water, vol%	-	Propane	0.53 0.89	320	47.49	53.32			
NaCl, mg/kg	0.5	Iso-Butane	0.42 0.64	340	50.32	56.07			
Nickel, mg/kg	9.8	n-Butane	1.21 1.76	360	53.32	58.96			
Vanadium, mg/kg	11.0			380	56.61	62.08			
Iron, mg/kg	-			400	60.13	65.38			
Mercury, µg/kg	-			420	63.76	68.76			
				440	67.33	72.05			

PROPERTIES OF TBP CUTS

LIGHT NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH	RON	MON			Napht.	Aro.	RVP			
	°C	wt%	vol %	kg/m3	wt%	mg/kg	clear	clear			vol%	vol%	kPa			
	15-65	4.44	5.88	642	0.0018	4	68.0	67.6			2.7	0.3	-			
	15-80	6.08	7.92	653	0.0022	6	63.6	63.5			4.5	0.9	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	10.32	11.92	736	0.0100	11					16.9	10.7				
80-175	14.66	16.69	747	0.0150	12					18.3	12.1					
100-150	7.80	8.89	746	0.0117	11					18.2	12.1					
KEROSENE	Cuts	Yield	Yield	Den 15°C	S	RSH	Smoke	Acidity	Cetane	Freez. Pt		Aro.	Visc cSt			Flash
	°C	wt%	vol %	kg/m3	wt%	mg/kg	Pt mm	mgKOH/g	Index	°C		vol%	50°C			Point
	150-230	13.22	14.25	789	0.074	13	25	0.04	44.8	-49		17.1	1.0			-
	175-230	8.88	9.48	797	0.098	14	24	0.04	46.5	-43		17.9	1.1			-
150-250	16.25	17.40	794	0.123	14	25	0.04	46.0	-44		17.8	1.1			-	
GASOIL	Cuts	Yield	Yield	Den 15°C	S		Anilin		Cetane	Cloud Pt	CFPP	Pour Pt	Visc cSt	Visc cSt	UOPK	Flash
	°C	wt%	vol %	kg/m3	wt%		Point °C		Index	C	C	C	50°C	100°C		Point
	175-400	37.20	37.42	846	1.160		69		50.4	-2	-6	-11	2.7	1.3	11.8	-
	230-400	28.32	27.94	862	1.490		72		52.3	2	0	-2	4.0	1.7	11.8	-
230-375	23.96	23.83	855	1.330		71		53.0	-3	-5	-7	3.3	1.5	11.8	-	
VACUUM DISTILLATE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Anilin	Ni	Va	Total N	Bas N	Pour Pt	Visc cSt	Visc cSt	UOPK	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	Point °C	mg/kg	mg/kg	wt%	mg/kg	C	100°C	150°C		wt %
	375-550	25.89	23.67	930	2.71	0.7	83	0	0	0.085	235	43	8.8	3.3	11.7	0.4
	375-565	27.42	25.00	933	2.75	1.0	83	1	1	0.090	249	45	9.6	3.5	11.7	0.5
	375-580	28.94	26.31	935	2.79	1.4	83	1	1	0.096	264	48	10.5	3.8	11.7	0.7
400-580	24.57	22.21	941	2.86	1.6	84	1	1	0.106	304	52	13.1	4.4	11.7	0.8	
RESIDUE	Cuts	Yield	Yield	Den 15°C	S	Conrad.	Acidity	Ni	Va	Total N		Pour Pt	Visc cSt	Visc cSt	Pene	Asp C7
	°C	wt%	vol %	kg/m3	wt%	wt%	mgKOH/g	mg/kg	mg/kg	wt%		C	100°C	150°C	mm/10	wt%
	> 375	44.23	38.72	972	3.37	11.1	0.1	22	25	0.191		13	45	11	21100	3.8
	> 550	18.34	15.05	1037	4.28	25.9	0.1	53	60	0.341		45	3190	192	180	8.7
	> 565	16.82	13.72	1042	4.37	27.7	0.1	57	64	0.356		47	5190	266	155	9.2
> 580	15.30	12.41	1048	4.45	29.6	0.1	62	70	0.372		48	8850	379	138	9.8	

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