



Crude **MURBAN**  
Country United Arab Emirates

TBP  
DISTILLATION

Density at 15°C, kg/m3	822.4	Assay Date	07-Aug-13	°C	wt%	vol%	°C	wt%	vol%
°API	40.5			080	8.09	10.36	460	80.91	83.54
Bbl/mt	7.660			090	9.54	12.05	480	83.49	85.87
Acidity, mg KOH/g	0.05			100	11.19	13.94	500	85.78	87.92
Sulphur, wt%	0.743			120	15.06	18.27	520	87.79	89.70
Hydrogen Sulphide, mg/kg	0			140	19.48	23.11	540	89.53	91.24
Mercaptan Sulphur, mg/kg	56			160	24.15	28.11	560	91.04	92.56
Viscosity, cSt at 10 °C	6.5			180	28.80	33.01	580	92.36	93.71
Viscosity, cSt at 50 °C	2.5			200	33.37	37.77			
Pour Point, °C	-9			220	37.90	42.43			
Total Nitrogen, wt%	0.042			240	42.34	46.93			
Wax, wt%	-			260	46.50	51.09			
Wax Appearance Temperature, °C	-			280	50.32	54.85			
RVP at 37.8 °C, kPa	39	Ethane	0.00	0.01	300	54.08	58.49		
Water, vol%	-	Propane	0.17	0.28	320	58.22	62.45		
NaCl, mg/kg	-	Iso-Butane	0.19	0.28	340	62.69	66.68		
Nickel, mg/kg	1.6	n-Butane	0.69	0.97	360	65.76	69.57		
Vanadium, mg/kg	2.4				380	68.46	72.10		
Iron, mg/kg	-				400	71.62	75.04		
Mercury, µg/kg	-				420	74.89	78.06		
					440	78.03	80.93		

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	5.22	6.66	644	0.0187	15	70.3	69.9			5.0	0.5	-			
	15-80	7.03	8.81	656	0.0177	28	66.6	66.4			8.7	1.6	-			
HEAVY NAPHTHA	Cuts	Yield	Yield	Den 15°C	S	RSH					Napht.	Aro.				
	°C	wt%	vol %	kg/m3	wt%	mg/kg					vol%	vol%				
	80-150	13.71	15.25	739	0.0179	74					21.8	13.2				
80-175	19.55	21.45	750	0.0209	72					21.0	15.0					
100-150	10.61	11.67	747	0.0188	74					21.5	14.6					
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	18.34	19.10	789	0.045	57	25	0.01	45.0	-55		20.1	1.0			-
	175-230	12.50	12.91	796	0.052	52	24	0.01	47.1	-49		20.4	1.1			-
150-250	22.66	23.46	794	0.063	54	24	0.01	46.6	-49		20.2	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	43.97	43.24	836	0.613		70		51.9	-4	-7	-10	2.3	1.1	11.9	-
	230-400	31.47	30.33	853	0.836		74		55.3	3	2	1	3.3	1.5	11.9	-
230-375	27.59	26.71	849	0.761		73		54.9	-2	-3	-4	2.9	1.3	11.9	-	
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	22.58	20.50	906	1.38	0.2	92	0	0	0.070	196	42	7.0	2.9	12.1	0.0
	375-565	23.66	21.44	907	1.40	0.3	92	0	0	0.074	204	43	7.4	3.0	12.1	0.1
	375-580	24.63	22.28	909	1.41	0.4	93	0	0	0.077	213	43	7.8	3.1	12.1	0.1
400-580	20.74	18.67	914	1.42	0.5	94	0	0	0.086	242	46	9.4	3.6	12.1	0.1	
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	32.26	28.57	928	1.61	4.4	0.1	5	7	0.124		36	15	5	76800	0.5
	> 550	9.68	8.07	986	2.15	13.9	0.4	17	24	0.248		27	197	32	1600	1.6
	> 565	8.61	7.13	992	2.21	15.4	0.4	19	27	0.260		26	266	39	1380	1.8
> 580	7.64	6.29	998	2.26	16.9	0.4	21	30	0.272		25	368	48	1200	1.9	

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