

**KAZAKHSTAN / NETHERLANDS ORIGIN - ESPO CRUDE OIL**

<b>TEST</b>	<b>UNITS</b>	<b>INTERNATINOAL SPECIFICATIONS</b>	<b>RESULT</b>
Density at 15oC	kg/L	ASTM D 5002	0.8508
Specific Gravity at 60/60°F	kg/L	ASTM D 5002	0.8512
API gravity		ASTM D 1250	34
Kinematic viscosity at 20°C	CST	ASTM D 445	6.949
Total acid Number	mg KOH/g	ASTM D 664	<0.050
Pour Point	°C	ASTM D 5853	<=-36
Water by distillation	mass%	ASTM D 4006	0.35
Sediment by extraction	mass %	ASTM D 473	0.01
Chloride salt content	mg/dm3	GOST 21534-75(A)	17
Organic chlorine content	mg/kg	ASTM D 4929(B)	*1
Sulphur content	mass%	ASTM D 4294	0.535
Hydrogen Sulphide	ppm	UOP 163	less 1
Mercaptan Sulphur	ppm	UOP 163	111
Ash content	mass %	ASTM D 482	0.011
Nickel	ppm	IP 470	4
Sodium	ppm	IP 470	1
Iron	ppm	IP 470	19
Copper	ppm	AAS	less 1
Vanadium	ppm	IP 470	4
Calcium	ppm	IP 470	2
Paraffin Wax content	mass %	UOP 46	3.3
RVPE	kPa	ASTM D 5191	40.4
Asphaltenes (heptane insolubles) content	mass %	IP 143	0.2
Distillation		ASTM D 5236	
Cut Range (°C)	Cum % vol		
LPG	% vol.		2.2
C5-65	% vol.		6.1
65-100	% vol.		9.8
100-150	% vol.		16.7
150-200	% vol.		25.1
200-250	% vol.		32.7
250-300	% vol.		42
300-350	% vol.		50.9
350-370	% vol.		54.2
370-475	% vol.		70
475-515	% vol.		74.6
515-525	% vol.		76
525-553	% vol.		79.9