

PRODUCT NAME : MARINE RESIDUAL FUEL (RMG 380) (*)
TÜPRAŞ CODE NO : 662

Property	Test Unit	Guarantee	Limit	Test Method
Density at 15°C	kg/m ³	991	Max	TS 1013 EN ISO 3675 or TS EN ISO 12185
Kinematic Viscosity at 50 °C	cSt	380	Max	TS 1451 EN ISO 3104
Flash Point	°C	60,0	Min	TS EN ISO 2719
Pour Point	°C	30	Max	TS 1233 ISO 3016
Hydrogen Sulfide	mg/kg	2,00	Max	IP 570
Carbon Residue; micro method	% wt	18,00	Max	TS EN ISO 10370
Sulfur	% wt	1,0-3,5		TS 6838 EN ISO 8754 TS 5144 EN ISO 14596
Ash	% wt	0,100	Max	TS EN ISO 6245
Water	% vol	0,50	max	TS 124 EN 1428
Vanadium	mg/kg	350	Max	TS EN ISO 14597 IP501 IP470
Total Sediment aged	% wt	0,10	Max	TS ISO 10307-2
Acid Number	mgKOH/g	2,5	max	ASTM D 664
Aluminium+Silicon	mg/kg	60	Max	TS ISO 10478 IP 501 IP 470

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Used Lubricating Oils (ULO)	Fuel musn't contain ULO(**)			
(**) Calcium and zinc; or	mg/kg	Calcium>30 and zinc>15; or		IP 501 or IP 470
(**) Calcium and phosphorus	mg/kg	Calcium>30 and phosphorus>15		
CCAI		870	Max	
Sodium	mg/kg	100	Max	IP 501 or IP 470

(*) This product is produced in İzmit and İzmir Refineries.

(**) A fuel shall be considered to contain ULO when combinations of calcium and zinc or calcium and phosphorus are above the specified levels.