

Distillate fuels DMX, DMA, DMB and DMC

Characteristics	Unit	Limit	Category ISO -F-				Test methods (see notes*)
			DMX 30	DMA 30	DMB 80	DMC (a) 180	
Density at 15°C	kg/m ³	max.	-	890.0	900.0	920.0	ISO 3675 or ISO 12185
Flash point	°C	min.	43	60	60	60	ISO 2719
Viscosity at 40°C	mm ² /s (b)	min.	1.40	1.50	-	-	ISO 3104
		max.	5.50	6.00	11.0	14.0	ISO 3104
Pour point (upper) (b)	°C						
- winter quality		max.	-	-6	0	0	ISO 3016
- summer quality		max.	-	-	0	6	ISO 3016
Cloud point	°C	max.	-16 (d)	-	-	-	ISO 3015
Ash	% (m/m)	max.	0.01	0.01	0.01	0.05	ISO 6245
Water	% (V/V)	max.	-	-	0.3 (f)	0.3	ISO 3733
Sulphur (c)	% (m/m)	max.	1.00	1.50	2.00 (e)	2.00 (e)	ISO 8754 or ISO 14596
Vanadium	mg/kg	max.	-	-	-	100	ISO 14597 or IP 501 or IP 470
Total sediment, existent	% (m/m)	max.	-	-	0.10 (f)	0.10	ISO 10307-1
Aluminium plus silicon	mg/kg	max.	-	-	-	25	ISO 10478 or IP 501 or IP 470
Cetane index		min.	45 (d)	40	35	-	ISO 4264
Carbon residue on 10% (V/V) distillation bottoms	% (m/m)	max.	0.30	0.30	-	-	ISO 10370
Carbon residue	% (m/m)	max.	-	-	0.30	2.50	ISO 10370
Used lubricating oil (ULO)						The fuel shall be free of ULO (d)	
Zinc	mg/kg	max.	-	-	-	15	IP 501 or IP 470
Phosphorus		max.	-	-	-	15	IP 501 or IP 500
Calcium		max.	-	-	-	30	IP 501 or IP 470

