

AORA Standards for burner oils

Low Grade Fuel Oil

AORA Standard - Primary level burner oil

Primary level burner oil undergoes filtration and dewatering and is mainly used in Cement, Lime, Foundry and Brick kilns and for Hydroponic and Greenhouse heaters.

Criterion	ASTM Method	Primary level burner oil
Density (kg/L @ 15 °C)	D 4052/D 1298	0.89-0.90
Viscosity (cSt @ 40 °C)	D 95/D 473	70-100
Distillation temperature for 90% vol. recovery (°C)	D 86	520
Pour point (°C)	D 97	≤6
Flash point (°C)	D 3828/D 93	≥61
Gross heating value (MJ/kg)	D 4868/D 240	≥38
Water (vol %)	D 4928	≤5
Ash (wt %)	D 482	≤3.0
Sulfur (max wt%)	D 129	3.0
Vanadium (ppm)	D 5185	NA
Potassium (ppm)	D 5185	NA
Calcium (ppm)	D 5185	NA
Cadmium (ppm)	D 5185	≤2
Chromium (ppm)	D 5185	≤12
Copper (ppm)	D 5185	≤50
Lead (ppm)	D 5185	≤200
Sodium (ppm)	D 5185	NA
PCB (ppm)		≤2
Chlorinated compounds (total, ppm)		≤1000