

AORA Standards for burner oils

Mid Grade Fuel Oil

AORA Standard - Secondary level burner oil

Secondary level burner oil is produced by chemical treatment leading to demineralisation. It is mainly used in Power stations and Hydroponic and Greenhouse heaters.

Criterion	ASTM Method	Secondary level burner oil
Density (kg/L @ 15 °C)	D 4052/D 1298	0.88-0.89
Viscosity (cSt @ 40 °C)	D 95/D 473	70-100
Distillation temperature for 90% vol. recovery (°C)	D 86	480
Pour point (°C)	D 97	≤6
Flash point (°C)	D 3828/D 93	≥61
Gross heating value (MJ/kg)	D 4868/D 240	≥42
Water (vol %)	D 4928	≤0.8
Ash (wt %)	D 482	≤0.8
Sulfur (max wt%)	D 129	1.0
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