

Alpha Resources, Inc.

Certificate Of Analysis

AR 330

#2 DIESEL OIL STANDARD

LOT #330903

LID # 330903

MEAN WEIGHT PERCENT CARBON	=	87.05
STANDARD DEVIATION	=	0.75
MEAN WEIGHT PERCENT HYDROGEN	=	13.08
STANDARD DEVIATION	=	0.20
MEAN WEIGHT PERCENT NITROGEN	=	0.0098
STANDARD DEVIATION	=	0.0009
MEAN WEIGHT PERCENT SULFUR	=	0.034
STANDARD DEVIATION	=	0.002
GROSS BTU/POUND	=	19,418
STANDARD DEVIATION	=	80

Methods:

ASTM D 240 ASTM D 2622
ASTM D 4629 ASTM D 5291
ASTM D 5453 ASTM D 5762

The above value represents the mean from the data, as reported by Alpha Resources' round robin program.

Before use, the contents of the bottle should be mixed through vigorous shaking. The contents should not be exposed to air for a lengthy period of time.

Normal ASTM procedures should be employed when using this standard. This includes using the reproducibility and repeatability factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The material used in production of this standard was sampled in accordance with ARI 031. The above values relate only to the material used to produce this standard.

The overall direction and coordination of the analytical measurements leading to certification were performed by J.R. Shingledecker at Alpha Resources.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages.

This is a Certified Reference Material (CRM), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

EXPIRATION DATE

THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING

J.R. Shingledecker

September, 2003