

Alpha Resources, Inc.

Certificate Of Analysis

AR-1681
ULTRA LOW SULFUR COAL STANDARD

LOT # 811215 LID ID # 811215

DRIED BASIS VALUE
WEIGHT PERCENT SULFUR = 0.00

METHOD:

Combustion by Resistance Furnace with IR Detection *ASTM 4239 (below method described range)

This material was used in the production of Ultra Low Sulfur Coal standards AR-1682, AR-1683, AR-1684, and AR-1685 and is considered to have a 0.00% Sulfur content. The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources. This RM is below actual test method limits and no known SRM/NMI references are available.

The material used for this standard was identified by AR 041. The samples for evaluation were selected in accordance with ARI 031. The above values relate only to the material used to produce this standard. The analytical samples were dried under a nitrogen atmosphere for a minimum of 30 minutes at $107^{\circ} \text{C} \pm 3^{\circ} \text{C}$, or until a steady mass is achieved. This bottle contains 50g fine powder to be used per your test method. This material has an indefinite shelf life. Keep sealed and store under normal laboratory conditions.

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. The above values relate only to the material used to produce this standard. This certificate cannot be reproduced except in full.

This is a RM, and is to be used in establishing baseline blank value. For good laboratory practice it is recommended that all standards be verified prior to use. This reference was produced in accordance to ISO Guide 34 and ISO Guide 31.

EXPIRATION DATE
THIS RM HAS AN INDEFINITE SHELF LIFE

Certified December 2, 2015

