



SECTION I.

CLASS I.

MINING, QUARRYING, METALLURGY, AND MINERAL PRODUCTS.

[1]

AARON, E. & W., *Liverpool*.—1. Halkyn hydraulic limestone. 2. Halkyn Chirt stone. 3. Holywell Roman cement stone.

[2]

ABERDARE COAL COMPANY, *Cardiff, Glamorganshire*.—Specimens of Aberdare Company's Merthyr steam coal, from the four-feet and nine-feet seams.

The coals, raised by this company, and shipped at Cardiff, are used extensively for marine purposes by the English and French Governments, and are entered in the naval contracts of both countries. They are also very largely used, by all the great steam navigation companies in England, and on the Continent.

Evaporative power	...	...	...	15·852
Specific gravity	...	...	...	1·323
Coke	...	...	...	86·8
Moisture	...	...	...	·93
Frangibility	{ Large	...	...	86·4
	{ Small	...	...	13·6
Ash	...	...	...	1·90
Carbon	...	...	...	89·33
Hydrogen	...	...	...	4·23
Nitrogen	...	...	...	1·57
Sulphur	...	...	...	·67
Oxygen	...	...	...	1·60

[3]

ABERDARE IRON COMPANY, *Aberdare, Glamorganshire*.—Coal; iron ore, pigs, refined metal, and railway iron.

[4]

ABERDARE STEAM FUEL COMPANY (Limited), *White Lion Court, London; Cardiff, and Aberdare*.—Patent steam fuel.

The ABERDARE PATENT STEAM FUEL, is made by compressing the small of the best South Wales steam coal, until its density somewhat exceeds that of the coal itself. From the regular form, and uniform size of the blocks, a larger quantity by weight can be stowed in a given space, to the extent of one-third, than of the coal; and at the same time the evaporating power is maintained; facility in firing is in no degree diminished; all risk of spontaneous ignition is removed; and much

advantage is gained in convenience and cleanliness of trans-shipment, especially in foreign ports. Moreover, while coal, when stored abroad, is subject to a depreciation of from 20 to 30 per cent., this fuel is absolutely incapable of injury, even by a lengthened exposure to the full effects of tropical heat and rain. Weight, per cubic foot, 80 lbs. Space occupied by one ton, 28 cubic feet. Supplied in blocks 9 in. by 6 in. square, of 14 lbs. each.

[5]

ADAIR, JOHN G., *Bellgrove, Ballybrittas*.—Coal from exhibitor's colliery, Ballylehane, Queen's County, Ireland. Marbles, minerals, and building materials, natural productions of County Donegal, Ireland.

[6]

AYTOUN, ROBERT, *3 Fettis Row, Edinburgh*.—Safety-cage for miners, and hoist.

CLASS I.

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