

## Typical Coal Quality

**fesilero**

Size 3 - 12 mm  
Origin Colombia

### ca. Analysis (on as received)

Total Moisture	8,0 - 11,0 %
Ash	3,0 - 4,0 %
Volatiles	34 - 36 %
Sulphur	0,4 - 0,6 %
Chlorine	0,06 - 0,07 %
Calorific value nett	6500 - 6600 kcal/kg
Hardgrove index	48 - 50
Free swelling index	1 - 2

### Ash fusion temperatures

Oxydizing atm.	F	C
Deformation	2.300° F	1.260° C
Hemispherical	2.345° F	1.285° C
Flow	2.390° F	1.310° C

### ca. Ultimate analysis of coal (on dry)

Carbon	78,90%
Hydrogen	5,37%
Nitrogen	1,54%
Oxygen	10,22%

### Ultimate analysis of ash (dry basis)

SiO <sub>2</sub>	62,60%
Al <sub>2</sub> O <sub>3</sub>	21,00%
Fe <sub>2</sub> O <sub>3</sub>	8,20%
CaO	1,99%
MgO	2,62%
TiO <sub>2</sub>	0,45%
K <sub>2</sub> O	0,64%
Na <sub>2</sub> O	0,74%
SO <sub>3</sub>	2,13%
P <sub>2</sub> O <sub>5</sub>	0,40%
BaO	0,12%
MnO <sub>2</sub>	0,10%

Size 3 - 12 mm  
Size Range < 3 mm max. 5%  
> 12 mm max. 5%