

# envirocoal-WARA

## Proximate Analysis %

Moisture (a.r)	38
Moisture (a.d.b.)	25
Ash (a.d.b.)	3
Volatile Matter (a.d.b.)	37
Fixed Carbon (a.d.b)	35
Calorific Value (a.d.b.)	4950
Calorific Value (g.a.r.)	4100
Total Sulphur	0.15
H.G.I	60

## Ultimate Analysis %

<b>(Dry Ash Free Basis)</b>	
Carbon	72
Hydrogen	5
Nitrogen	1
Oxygen	22
Sulphur	0.2

## Ash Fusion Temperatures ° C

<b>(Reducing Atmosphere)</b>	
Initial Deformation	1200
Spherical	1220
Hemispherical	1250
Flow	1310

## Typical Ash Composition Dry %

Silica	SiO <sub>2</sub>	29
Aluminium	Al <sub>2</sub> O <sub>3</sub>	16
Iron	Fe <sub>2</sub> O <sub>3</sub>	18
Calcium	CaO	16
Magnesium	MgO	10
Sodium	Na <sub>2</sub> O	0.5
Potassium	K <sub>2</sub> O	0.6
Titanium	TiO <sub>2</sub>	0.5
Phosphorus	P <sub>2</sub> O	0.3
Manganese	Mn <sub>3</sub> O <sub>4</sub>	0.3
Sulphates	SO <sub>3</sub>	9

## Reserves/Resources (million tonnes)

Reserves	282
Resources	1259

## TYPICAL SPECIFICATIONS

### PT ADARO INDONESIA

Menara Karya 22nd floor  
Jl. H R Rasuna Said Blok X-5, Kav 1-2  
Jakarta 12950  
Tel : 62 21 5211265  
Fax : 62 21 5211266  
Email : [marketing@ptadaro.com](mailto:marketing@ptadaro.com)  
[www.adaro-envirocoal.com](http://www.adaro-envirocoal.com)