

**Table 1. Average chemical composition of the 23 un-leached and leached (leachate) European coal fly ash samples from Moreno et al [10]**

Table 1. Average chemical composition of the 23 un-leached and leached (leachate) European coal fly ash samples from Moreno *et al.* [10].

Element	Un-Leached µg/kg	Leached (Leachate) µg/L	Element	Un-Leached µg/kg	Leached (Leachate) µg/L
Aluminum	$7.00 \times 10^4$	$5.37 \times 10^3$	Molybdenum	$1.10 \times 10^1$	$3.66 \times 10^{-1}$
Antimony	$1.20 \times 10^1$	$3.60 \times 10^{-2}$	Nickel	$1.22 \times 10^2$	$1.68 \times 10^{-2}$
Arsenic	$7.06 \times 10^1$	$8.35 \times 10^{-2}$	Niobium		$6.22 \times 10^{-4}$
Barium	$1.38 \times 10^3$	$5.34 \times 10^{-1}$	Phosphorus	$1.22 \times 10^3$	$2.22 \times 10^2$
Beryllium	9.66	$3.00 \times 10^{-4}$	Potassium	$1.43 \times 10^4$	
Boron	$2.38 \times 10^2$	3.32	Rubidium	$1.04 \times 10^2$	$3.04 \times 10^{-2}$
Cadmium	1.87	$7.61 \times 10^{-4}$	Scandium		$4.32 \times 10^{-3}$
Calcium	$4.03 \times 10^4$	$3.48 \times 10^5$	Selenium	$2.24 \times 10^1$	$8.12 \times 10^{-2}$
Cesium		$2.78 \times 10^{-3}$	Silicon	$2.27 \times 10^5$	$6.57 \times 10^3$
Chromium	$1.54 \times 10^2$	$2.99 \times 10^{-1}$	Sodium	$2.98 \times 10^3$	$1.51 \times 10^4$
Cobalt	$4.13 \times 10^1$	$2.30 \times 10^{-3}$	Strontium	$1.09 \times 10^3$	5.09
Copper	$9.94 \times 10^1$	$6.97 \times 10^{-3}$	Sulfur	$3.78 \times 10^3$	$1.57 \times 10^5$
Gallium		$2.24 \times 10^{-2}$	Thallium		$4.61 \times 10^{-4}$
Germanium	$1.18 \times 10^1$	$6.20 \times 10^{-3}$	Thorium	$3.25 \times 10^1$	$9.83 \times 10^{-4}$
Hafnium		$1.01 \times 10^{-3}$	Tin	8.48	$6.96 \times 10^{-4}$
Iron	$2.89 \times 10^4$	$1.22 \times 10^2$	Titanium	$7.01 \times 10^3$	$4.27 \times 10^{-2}$
Lead	$1.29 \times 10^2$	$1.30 \times 10^{-3}$	Uranium	$1.34 \times 10^1$	$4.65 \times 10^{-4}$
Lithium	$1.95 \times 10^2$	1.18	Vanadium	$2.53 \times 10^2$	$1.18 \times 10^{-1}$
Magnesium	$1.02 \times 10^4$	$2.85 \times 10^3$	Zinc	$1.90 \times 10^2$	$2.70 \times 10^{-2}$
Manganese	$4.84 \times 10^2$	4.35			