





Fly ash according EN 450-1+A1 for use as type II addition in concrete, mortars and grout			
Producer: Vliegasunie B.V. PO Box 265 4100 AG Culemborg tel: +31345 - 509988 fax: +31345 - 509980 www.vliegasunie.nl		Production plant: Nuon Power Generation B.V. Locatie Amsterdam Petroleumhavenweg 1 1041 AB Amsterdam	
		 08 0956-CPD-1304	 
Relevant clause in EN 450-1	Characteristics	Requirements	Category
5.2.2	Loss on Ignition	$\leq 5 \%$	Category A
5.2.3	Chloride (Cl)	$\leq 0.1 \%$	
5.2.4	Sulphuric anhydride (SO ₃)	$\leq 3 \%$	
5.2.5	Free CaO	$\leq 1.0 \%$	
5.2.6	Reactive CaO (as total CaO)	$\leq 10 \%$	
5.2.7	Reactive SiO ₂	$\geq 25 \%$	
5.2.8	Sum of the content of SiO ₂ , Al ₂ O ₃ and Fe ₂ O ₃	$\geq 70 \%$	
5.2.9	Total content of alkalis (Na ₂ O-eq)	$\leq 4.5 \%$	
5.2.10	MgO	$\leq 4 \%$	
5.2.11	Total P ₂ O ₅ Soluble phosphate	$\leq 5 \%$ $\leq 100 \text{ mg/kg}$	
5.3.1	Fineness > 45 micron	< 40 % and variation ± 10 percentage points	Category N
5.3.2	Activity index	After 28 days: $\geq 75 \%$ After 90 days: $\geq 85 \%$	
5.3.3	Soundness	$\leq 10 \text{ mm}$	
5.3.4	Particle density	2200 kg/m^3	
5.3.5	Initial setting time, difference between cement paste and cement/fly ash paste	Twice as long as the initial setting time of a 100 % (by mass) test cement paste	
5.4.2	Dangerous substances	according Dutch regulations (NL)	
EG declaration of conformity			
We declare, in accordance with article 14 of the Construction Products Directive (89/106/EEC), that the product according to this Product specification delivered of the location Nuon Power Generation B.V. te Amsterdam conforms to EN 450-1+A1 with conformity established according to EN 450-2 as given in Annex ZA van of EN 450-1+A1			
The FPC system is controlled by the approved body BMC and certificate of conformity number: 0956-CPD-1304 is January 1, 2008 issued			
Culemborg, February 17, 2010		 A.Korthout, director	