

PCA800P/FCX PERPETUAL CARBON™

ADDCQUEST BIOCHAR CHIPS



ADDCQUEST is ideal for industrial building applications. ADDCQUEST has excellent insulating properties, improves air quality, soaks up moisture and protects from radiation. It can be used as pigmentation for concrete or mortar, plaster and bricks. ADDCQUEST allows buildings to be turned into carbon sinks.

PCA800P/FCX Origin: Forest, plantation and other virgin wood. Traded form: Chips. Carbonisation T 350–500 °C

Benefits

- Renewable additive
- 1.4–2.7 ton carbon removal per ton PCA800P
- Source for voluntary market carbon credits
- Humidity regulation, insulation, noise protection & binding of toxins
- Anti-bacterial fungicide & Air-cleaning

Applications

- Concrete & cement based mixtures
- Gypsum plasterboards
- Facades additive
- Infra-structures additive
- Carpet backing
- Click flooring pigment



Parameter	Unit	Spec Biochar		Chips*	Testing Standard
		Min.	Typical	Max.	
Length, L	mm	-	16	-	P16
H/C	-	-	0.5	0.6	-
PAH 8 EFSA-PAK	mg/kg	-	0.5	1.0	ISO 13877
PAH 16 EPA-PAK	mg/kg	-	3.5	4.0	ISO 13877
BTEX (Benzene Toluene Ethylbenzene Xylene)	µg/kg	-	-	140	-
Water Holding Capacity (WHC)	%	-	151	-	-
Electrical Conductivity	mS/cm	-	-	0.1	SAA-HLF
Bulk Density, BD	kg/m ³ as received	158	165	180	ISO 17828
Moisture **	w-% as received	1.5	2.5	3.0	ISO 18134-1, ISO 18134-2
Ash (composition available)	w-% dry	0.8	2.5	3.2	ISO 18122
Carbon, C	w-% dry	79.0	80.0	85.0	ISO 16948
Nitrogen, N	w-% dry	0.2	0.6	0.7	ISO 16948
Hydrogen, H	w-% dry	3.0	3.5	4.0	ISO 16948
Oxygen, O	w-% dry	13.0	13.5	15.0	ISO 16948
Sulphur, S	w-% dry	-	<0.1	0.1	ISO 16994
Chlorine, Cl	w-% dry	-	<0.1	0.1	ISO 16994
Volatiles	w-% dry	25.0	26.0	28.0	ISO 18123
Arsenic, As	mg/kg dry	0.3	0.8	2.0	ISO 16968
Boron, B	mg/kg dry	-	6	12	ISO 16968
Cadmium, Cd	mg/kg dry	-	0.2	0.3	ISO 16968
Chromium, Cr	mg/kg dry	0.5	1.0	3.0	ISO 16968
Copper, Cu	mg/kg dry	1.5	4.5	7.0	ISO 16968
Lead, Pb	mg/kg dry	-	2.0	17.0	ISO 16968
Mercury, Hg	mg/kg dry	-	<0.1	0.1	ISO 16968
Nickel, Ni	mg/kg dry	-	1.0	2.0	ISO 16968
Silver, Ag	mg/kg dry	-	<5.0	5.0	ISO 16968
Zinc, Zn	mg/kg dry	19.0	47.0	74.0	ISO 16968

* All information in this specification is based on measurements by a certified laboratory as per the referenced ISO norm

** Typical moisture after manufacture; can vary on storage and atmospheric conditions; depending packaging, for safety reasons, moisture can be added up to 50 w-%