



CHEM-FUEL® S BLEND
(Containerized Solid Specifications)

CHANUTE, KS & FOREMAN, AR PLANT



Ash Grove Cement Company operates two hazardous waste combustor plants. One plant is in Chanute, Kansas and the other plant is in Foreman, Arkansas. Customers shipping containerized solids to the plants should refer to the following guidelines for plant shipment acceptance criteria.

All Chem-Fuel shipments are sampled, analyzed, tested, and results compared to regulatory limits on-site using the methods specified in the respective plant's permits (e.g., Waste Analysis Plan or Feed Stream Analysis Plan).

Please direct questions to the Kiln Services Manager (Chanute 620/433-3535; or Foreman 870/542-3090).

Parameter	Criteria	Parameter	Criteria
<i>Requirements</i>			
Stability	Stable	Radioactivity	Background
PCB ¹	50 ppm, less than	pH, extracted	Between 2 to 12.5
Waste codes	Listed in RCRA permit, see waste code list	Unacceptable materials	CAA 112 (r) listed compounds in excess of 1% ² , infectious materials, materials harmful to the plant, materials Ash Grove deem potentially harmful, or materials not allowed by Ash Grove permits.
<i>Guidelines³</i>			
Antimony	5,000 ppm	Total Halogens	3.5%
Arsenic	1,200 ppm	Heat of combustion	5,000 btu/lb, minimum
Barium	25,000 ppm	Appearance	Orderly and free of soiling or damage
Beryllium	5.0 ppm	Weight	65 lbs/container
Cadmium	400 ppm	State or viscosity	Solid at ambient temperature, no free liquids, and non-pumpable
Chromium	4,000 ppm	Headspace	1.5-inch, minimum
Lead	3,000 ppm	Incidental Metal	17-gauge, 5-oz/piece, 1-lbs/container, no stainless steel
Mercury	Foreman, AR - 1.9 ppm Chanute, KS - 3.0 ppm	Particle size	2-inch, high density material only
Selenium	500 ppm	Particle size	2-inch, high density material only
		Unitization	8-layer minimum, 90-gauge minimum, mechanically stretch-wrapped containers in a Ash Grove approved pattern on a 4-way entry 40x48 GMA pallet with ¾-inch face and bottom board
Silver	6,000 ppm	Container type	DOT approved shipping containers, with Ash Grove approved size, shape and composition
Thallium	250 ppm	Transportation	Closed and sealed box van

All values in table are maximum values, unless otherwise noted.

¹ Aggregate Aroclors 1242, 1248, 1254 and 1260 with characteristic peak patterns treated as a positive determination.

² Customers must provide pre-shipment notice of and obtain Ash Grove pre-shipment authorization to ship a waste stream that contains CAA 112 (r) regulated chemicals.

³ Plant's Hazardous Waste Fuel Manager's may acceptance waste outside guideline criteria. Acceptance may result in additional fees.



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Cadence™
ENVIRONMENTAL
ENERGY, INC.

WASTE CODE LIST

D001	D004	D005	D006	D007	D008	D009	D010	D011	D012	D013	D014	D015	D016	D017	D018	D019
D020	D021	D022	D023	D024	D025	D026	D027	D028	D029	D030	D031	D032	D033	D034	D035	D036
D037	D038	D039	D040	D041	D042	D043										
F001	F002	F003	F004	F005	F006	F007	F008	F009	F010	F011	F012	F019	F024	F025	F032	F034
F035	F037	F038	F039													
K001	K002	K003	K004	K005	K006	K007	K008	K009	K010	K011	K013	K014	K015	K016	K017	K018
K019	K020	K021	K022	K023	K024	K025	K026	K027	K028	K029	K030	K031	K032	K033	K034	K035
K036	K037	K038	K039	K040	K041	K042	K043	K044	K045	K046	K047	K048	K049	K050	K051	K052
K060	K061	K062	K071	K073	K083	K084	K085	K086	K087	K088	K093	K094	K095	K096	K097	K098
K099	K100	K101	K102	K103	K104	K105	K106	K107	K108	K109	K110	K111	K112	K113	K114	K115
K116	K117	K118	K123	K124	K125	K126	K131	K132	K136	K141	K142	K143	K144	K145	K147	K148
K149	K150	K151	K156	K157	K158	K159	K169	K170	K171	K172	K175	K181				
P001	P002	P003	P004	P005	P006	P007	P008	P009	P010	P012	P013	P014	P016	P017	P018	P020
P022	P023	P024	P026	P027	P028	P029	P030	P034	P037	P038	P039	P040	P041	P042	P043	P044
P045	P046	P047	P048	P049	P050	P051	P054	P057	P058	P059	P060	P062	P063	P066	P067	P068
P069	P070	P071	P072	P073	P075	P076	P077	P078	P081	P082	P084	P085	P087	P088	P089	P093
P094	P095	P096	P097	P098	P102	P104	P105	P106	P108	P109	P111	P112	P115	P116	P118	P119
P120	P121	P122	P123	P127	P128	P185	P188	P189	P190	P191	P192	P194	P196	P197	P198	P199
P201	P202	P203	P204	P205												
U001	U002	U003	U004	U005	U006	U007	U008	U009	U010	U011	U012	U014	U015	U016	U017	U018
U019	U020	U021	U022	U023	U024	U025	U026	U027	U028	U029	U030	U031	U032	U033	U034	U035
U036	U037	U038	U039	U041	U042	U043	U044	U045	U046	U047	U048	U049	U050	U051	U052	U053
U055	U056	U057	U058	U059	U060	U061	U062	U063	U064	U066	U067	U068	U069	U070	U071	U072
U073	U074	U075	U076	U077	U078	U079	U080	U081	U082	U083	U084	U085	U086	U087	U088	U089
U090	U091	U092	U093	U094	U095	U096	U097	U098	U099	U101	U102	U103	U105	U106	U107	U108
U109	U110	U111	U112	U113	U114	U115	U116	U117	U118	U119	U120	U121	U122	U123	U124	U125
U126	U127	U128	U129	U130	U131	U132	U133	U134	U135	U136	U137	U138	U140	U141	U142	U143
U144	U145	U146	U147	U148	U149	U150	U151	U152	U153	U154	U155	U156	U157	U158	U159	U160
U161	U162	U163	U164	U165	U166	U167	U168	U169	U170	U171	U172	U173	U174	U176	U177	U178
U179	U180	U181	U182	U183	U184	U185	U186	U187	U188	U189	U190	U191	U192	U193	U194	U196
U197	U200	U201	U202	U203	U204	U205	U206	U207	U208	U209	U210	U211	U213	U214	U215	U216
U217	U218	U219	U220	U221	U222	U223	U225	U226	U227	U228	U234	U235	U236	U237	U238	U239
U240	U243	U244	U246	U247	U248	U249	U271	U278	U279	U280	U328	U353	U359	U364	U367	U372
U373	U387	U389	U394	U395	U404	U409	U410	U411								

Note: Manifests that must carry D002 & D003 but whose fuel does not exhibit corrosive or reactive characteristics may be accepted with prior approval.