

Materials List for:

Method to Produce Durable Pellets at Lower Energy Consumption Using High Moisture Corn Stover and a Corn Starch Binder in a Flat Die Pellet Mill

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Materials

Name	Company	Catalog Number	Comments
Flat die pellet mill	Colorado Mill Equipment, Canon City, CO, USA	ECO-10 pellet mill	
Heating tapes	BriskHeat, Columbus, OH, USA	Silicon Rubber Heater, Etched foil elements	
Thermocouples	Watlow, Burnaby, BC, Canada	J-type	
Variable frequency drive	Schneider Electric, Palatine, IL, USA	Altivar 71	
Pellet cooler	Colorado Mill Equipment, Canon City, CO, USA	CME ECO-HC6	
Data logging software	National Instruments Corporation, Austin, TX, USA	Labview software	
Durability tester	Seedbuero Equipment Co., Des Plaines, IL, USA	Pellet durability tester	
Hammer mill	Bliss Industries	CME ECO-HC6	
Grinder	Vermeer	HG200	
Horizontal mixer	Colorado Mill Equipment, Canon City, CO, USA	ECO-RB 500	
Blue grit utility cloth	3M	Part No.05107-150J grade	
Insulation materail	McMaster Carr	Flexible fiberglass insulation	
Feeder controller	KB Electornics, INC	KBIC-DC-MTR direct current motor controller	
Dust exhaust system	Delta	Model No: 50-763, Serial No: 2010 11OI1415	
Vernier calipers	VWR® Digital Calipers	Part Number: 12777-830	
Binder	ACH Food Companies Inc., Memphis, TN, USA	ARGO 100% pure corn starch	
Corn stover	Harvested in Iowa and proccured in bale form		