

Package - Id 2

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Package name	shredder input LA	Calc. model	WEEE-Dir. 2002/96/EC, WFD 2006/12/EC
May be used by	Treatment partner A	WEEE-system	DEMO system
Output fraction	16 02 14 / 01 - large (household) appliances shredder input (excl. components to be removed)		
Internal name and code of output fraction		Remarks	

All fractions, acceptors/technologies and composition-data

Treatment partner A (nat. market)		large shredder / separation		I	100,0000 %
*	19 10 06 / 03	sieving material - no haz.sub. and plastics below ROHS/REACH values	Fines		5,0000 %
	internal (nat. market)		separation	I	100,0000 %
**	19 12 03 / 03-2	aluminium fraction 'pure'			1,0000 %
	Al smelter 1 (DE)		Al smelter	F	100,0000 %
	Al		Al > Al recovery	MR	MR
**	19 12 03 / 04-2	copper and grey metals mixture 'pure'			6,0000 %
	Cu smelter 1 (DE)		Cu smelter 'traditional'	F	100,0000 %
	Cu		Cu > Cu recovery	MR	MR
**	19 12 09 / 02-2	concrete 'fines' 'pure'			72,0000 %
	landfill X (nat. market)		road construction and defined construction purposes	F	100,0000 %
	other inorganic fractions		mineral fraction ('pieces' or 'fines') > feedstock substitution in defined construction material	MR	MR
**	19 12 12 / 01	residues from separation - no hazardous substances and plastics below ROHS/REACH values			21,0000 %
	landfill X (nat. market)		landfill	F	100,0000 %
	mixed fractions - disposal		no use - 'cold technologies'	LD	LD
*	19 12 02 / 01-2	iron fraction 'pure'			60,0000 %
	Steel S (nat. market)		steel mill 'traditional'	F	100,0000 %
	Fe / stainless steel		Fe > Fe recovery	MR	MR
*	19 12 03 / 03-1	aluminium fraction 'not pure'	Al > xx mm + circuit boards		2,0000 %
	internal (nat. market)		manual sorting	I	100,0000 %
**	19 12 03 / 03-2	aluminium fraction 'pure'			98,0000 %
	Al smelter 1 (DE)		Al smelter	F	100,0000 %
	Al		Al > Al recovery	MR	MR
**	19 12 11* / 08-2	circuit board fraction			2,0000 %
	Cu smelter 2 (nat. market)		Cu smelter 'special'	F	100,0000 %
	Cu		Cu > Cu recovery	MR	MR
**	19 12 03 / 03-3	aluminium-iron fraction 'pure'	Al + Fe		0,0500 %
	Al smelter 2 (IT)		Al smelter	F	100,0000 %
	Al		Al > Al recovery	MR	MR
**	19 12 03 / 04-2	copper and grey metals mixture 'pure'	heavy non-ferrous > xx mm		3,0000 %
	internal (nat. market)		separation	I	100,0000 %
**	19 12 02 / 02-2	stainless steel 'pure'			50,0000 %
	SS works1 (DE)		stainless steel works	F	100,0000 %
	Fe / stainless steel		stainless steel > metal recovery	MR	MR
**	19 12 03 / 05-2	copper and copper alloys 'pure'	red copper		13,0000 %
	Cu smelter 2 (nat. market)		Cu smelter 'special'	F	100,0000 %
	Cu		Cu > Cu recovery	MR	MR
**	19 12 03 / 05-2	copper and copper alloys 'pure'	yellow copper		15,0000 %
	Cu smelter 2 (nat. market)		Cu smelter 'special'	F	100,0000 %
	Cu		Cu > Cu recovery	MR	MR
**	19 12 03 / 06-2	non-ferrous metals grey 'pure'			19,0000 %
	diff. smelters (non-EU/EFTA)		other metal smelters	F	100,0000 %
	other metals		other metals > metal recovery	MR	MR
**	19 12 03 / 07-2	lead 'pure'			3,0000 %
	Pb smelter x (AT)		Pb smelter	F	100,0000 %
	other metals		Pb > Pb recovery	MR	MR
*	19 12 03 / 08-2	cable fraction	Cu bundels		0,1000 %
	Cu smelter 1 (DE)		Cu smelter 'traditional'	F	100,0000 %
	Fe / stainless steel		Fe > used as reductant / smelting detergent	MR	MR
*	19 12 04 / 01-1	plastics and rubber 'pieces' 'not pure' - below ROHS/REACH values	Al/Mg/rubber		1,5000 %
	internal (nat. market)		manual sorting	I	100,0000 %
**	19 12 03 / 03-2	aluminium fraction 'pure'			2,0000 %
	Al smelter 1 (DE)		Al smelter	F	100,0000 %
	Al		Al > Al recovery	MR	MR

**	19 12 12 / 01	residues from separation - no hazardous substances and plastics below ROHS/REACH values				98,0000 %
	diff. landfills (EU/EFTA)	landfill		F		100,0000 %
	mixed fractions - disposal	no use - 'cold technologies'	LD	LD		100,0000 %
*	19 12 04 / 02-1	hard plastics 'pieces' 'not pure' - below ROHS/REACH values				4,0000 %
	plastic cond.1 (NL)	plastics conditioning		I		100,0000 %
**	19 12 04 / 02-2	hard plastics 'pieces' 'pure' - below ROHS/REACH values				80,0000 %
	plastic rec./market (non-EU/EFTA)	plastics recycling		F		100,0000 %
	plastics / organic fractions	plastics > production of plastics or granulates	MR	MR		100,0000 %
**	19 12 12 / 01	residues from separation - no hazardous substances and plastics below ROHS/REACH values				20,0000 %
	landfill X (nat. market)	landfill		F		100,0000 %
	mixed fractions - disposal	no use - 'cold technologies'	LD	LD		100,0000 %
*	19 12 09 / 01	mineral fraction 'not pure'	stones + cables			8,0000 %
	Treatment partner A (nat. market)	separation		I		100,0000 %
**	19 12 03 / 08-2	cable fraction	cables & Cu strands			2,0000 %
	cable shredders xx (EU/EFTA)	fine shredder / separation		I		100,0000 %
***	19 12 03 / 01-2	non-ferrous metals with iron 'pure'				40,0000 %
	Cu smelter I (DE)	Cu smelter 'traditional'		F		100,0000 %
	Cu	Cu > Cu recovery	MR	MR		85,0000 %
	Fe / stainless steel	Fe > used as reductant / smelting detergent	MR	MR		5,0000 %
	other metals	other metals > metal recovery	MR	MR		10,0000 %
***	19 12 12 / 01	residues from separation - no hazardous substances and plastics below ROHS/REACH values				60,0000 %
	est. landfills (EU/EFTA)	landfill		F		100,0000 %
	mixed fractions - disposal	no use - 'cold technologies'	LD	LD		100,0000 %
**	19 12 09 / 02-2	concrete 'fines' 'pure'				98,0000 %
	landfill X (nat. market)	road construction and defined construction purposes		F		100,0000 %
	other inorganic fractions	mineral fraction ('pieces' or 'fines') > feedstock substitution in defined construction material	MR	MR		100,0000 %
*	19 12 10 / 01	mixture of combustible wastes - conditioned for incineration - no hazardous substances and plastics below ROHS/REACH values	CBR			1,9000 %
	incinerator1 (nat. market)	co-incineration - with ER		F		100,0000 %
	plastics / organic fractions	plastics > used for fuel substitution	ER	ER		100,0000 %
*	19 12 12 / 01	residues from separation - no hazardous substances and plastics below ROHS/REACH values	difference - waste fraction, filter material etc.			14,4500 %
	MWI Z (nat. market)	municipal waste incineration		F		100,0000 %
	mixed fractions - disposal	no use - 'hot technologies'	TD	ER		100,0000 %

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