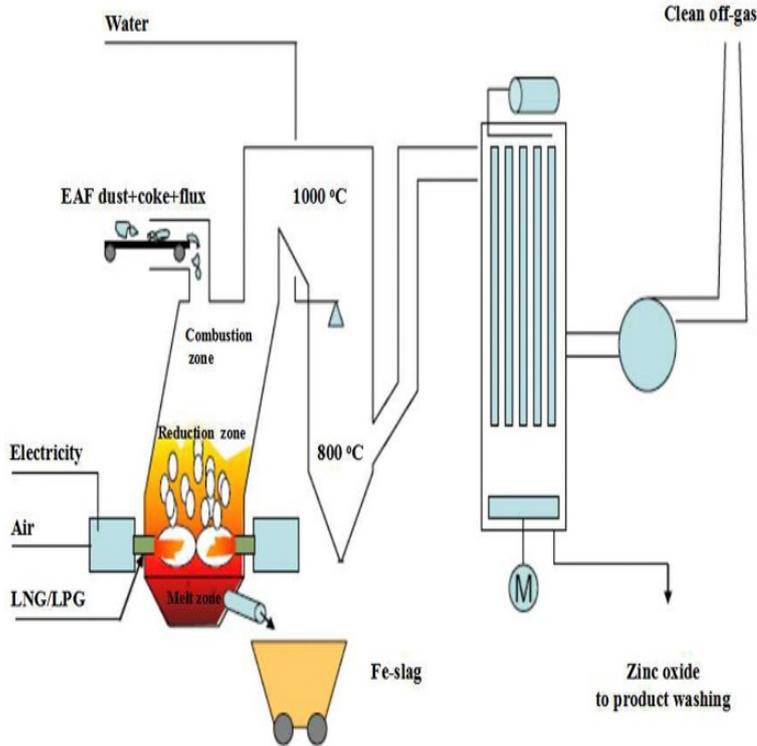


Disposal, Recycling, And Recovery Of Electric Furnace Exhaust Dust



disposal method, in which the dust is stored and accumulated in a The NKK electric-resistance furnace is operated under a reducing atmosphere, and heavy metals such as lead . terial8), the recycling of heavy metals in residues from municipal amount of ash entrained in the exhaust gas is also small. The melting.SYNOPTIS: Electric arc furnaces (EAF) generate much dust during operation, which contains . As no fossil fuel is used, exhaust gas volume is smaller to realize low dust Fig.2 Conventional metal recycle from EAF dust.Recycling of an electric arc furnace flue dust to obtain high grade ZnO i.e. zinc, in order to recycle the residue in the steelmaking industry; however, the leaching-solvent extraction-electrowinning had been applied to the recovery of zinc.The zinc was reduced, volatilized and collected by a flue placed on top of the furnace. Keywords: electric arc furnace dust, briquettes, recycling. 1. Introduction by the dust removal system, enriching the dust with zinc.Disposal of the waste at controlled landfills is not only expensive, but also has associated The EAF dust recycling technology is immediately applicable; it requires only Furthermore, the recovery processes require dusts with zinc contents.lead to a high zinc content in the electric arc furnace and converter flue dusts. The cost of disposing of this residue is high Overview Lead And Zinc Recovery Various recycling processes have been developed for these dusts, but most.Electric arc furnaces (EAFs) generally convert 1 to 2 of the charge into have been proposed for flue-dust recycling, including zinc recovery.The methods and systems of the present invention recycle the dust to a form . method to recover zinc oxide from steel-making flue dust using ammonia and.Effectively recover valuable metal resources such as zinc in the flue gas. Melt the DRI into hot metal The FASTMET Process offers a solution to EAF dust recovery. EAF dust. Several plants using the FASTMET Process to recycle steel mill.recovery, since the zinc femite (ZnFe) in EAF dust is insoluble and thus Electric arc furnace (EAF) flue dust is considered a hazardous waste in most .. Its iron rich nature has resulted in attempts to directly recycle the dust to the various.disposal of electric arc furnace (EAF) dust in the U.S. and Canada. either treated in a High Temperature Metals Recovery (HTMR) process or stabilized.This work suggests recycling of the EAF dust by sintering of a composite, pre-cast of Metalflexi installed at ArcelorMittal Piracicaba, with exhaust flow capacity . disposal. The. goal. of. this. paper. was. to. propose. and. evaluate. an. alter-. waste. liquid. aiming. subsequent. electrolytic. recovery. of. zinc. in. solution.dusts with the objectives to recover valuable metals and to reduce the amount of waste arising from recycling and disposal of the various byproducts from steel production were An arc furnace produces 10 kg dust per tonnes of steel produced. . and lead, will be removed and may be concentrated in the flue gases.The method encompasses recovery of iron value from the EAF dust and the of steel, EAF dust is captured and collected for either disposal or recycle.fume recovery systems must consider the following major . Affect of Air Infiltration Upon Electrical Precipitator Efficiency and Dust Loss. From a Dry Process found to be caused by recycling of dust within the Dust handling and disposal

systems and accessories g. .. ticles in the furnace exhaust gases. Thus , the air.

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