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Tubular briquette from ferrous pulverous waste



The invention relates to a tubular briquette made of ferrous wastes as powder and smalls, meant to be used in the ferrous metallurgy, in reduction equipments, such as in pig-iron furnaces or in installations for the direct iron reduction from ores, with a view to obtaining iron sponge. According to the invention, the briquette is tube-shaped, having an external diameter $D = 60...70$ mm, an internal diameter $d = 20...25$ mm, the height $h = 40...45$ mm and having an external cylindrical surface, an internal cylindrical surface, two flat surfaces equal to each other, a cavity, and is obtained by the compression of a mixture in a mould, using a hydraulic press, the mixture comprising 40...60% steel foundry dust, 8...12% blast-furnace dust, 8...12% blast-furnace agglomeration slag, 5...9% iron scale, 5...8% coal dust, 5...8% the ferrous fraction of the steel foundry slag, 3...5% graphite, 2...4% bentonite, 2...4% lime and 4...8% water.

