

JIS

JAPANESE INDUSTRIAL STANDARD

Iron and steel slag
for road construction

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Iron and steel slag for road construction

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1. Scope This Japanese Industrial Standard specifies iron and steel slag (hereafter referred to as "slag") to be used for road bed and for heated asphalt mixture.

Remarks 1. Concerning the slag, there are two types, the blast-furnace slag which is generated in the pig iron manufacturing process, and the steel manufacturing slag which is generated in the manufacturing process of steel.

The blast-furnace slag is classified by the difference of cooling process, into the blast-furnace slowly cooled slag and the blast-furnace water granulated slag.

The steel manufacturing slag is classified by the difference of manufacturing methods of steel into the convertor slag and the electric-furnace slag.

2. In the slag to be used for road construction, there is the one which is manufactured for road bed material, as single or combination of the blast-furnace slag and the steel manufacturing slag as materials, and the one which is manufactured for the aggregates to be used for heated asphalt mixture and pitch stabilizing process (heating mixture) using the steel manufacturing slag as material.

3. The following Standards are cited in this Standard.

JIS A 1102 Method of test for sieve analysis of aggregates

JIS A 1103 Method of test for amount of material passing standard sieve 75 μm in aggregates

JIS A 1104 Method of test for unit weight of aggregate and solid content in aggregate

JIS A 1110 Method of test for specific gravity and absorption of coarse aggregates

JIS A 1121 Method of test for resistance to abrasion of coarse aggregates by use of the Los Angeles machine

JIS A 1203 Test method for water content of soils

JIS A 1210 Test method for soil compaction using a rammer

JIS A 1211 Test method for the California Bearing Ratio (CBR) of soils in laboratory

JIS K 0101 Testing methods for industrial water

JIS K 8005 Standard substances for volumetric analysis

JIS P 3801 Filter paper (for chemical analysis)

JIS R 3503 Glass apparatus for chemical analysis

JIS R 5210 Portland cement

JIS R 5211 Portland blast-furnace slag cement