

图书基本信息

书名：<<DL/T 5200-2004水电水利工程高压喷射灌浆技术规范>>

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内容概要

Besides being used for soil foundation consolidation in hydropower and water resources projects, jet grouting is much more popularly applied to prevent seepage for these projects. Compared with the traditional methods of foundation strengthening, construction of jet grouted cutoff wall possesses different features and requirements. For several years, with the great effort of engineers, many jet grouted cutoff walls have been constructed and a plenty of experience has been gained in construction of hydraulic structures in various scales and under complicated geological conditions. In order to ensure the quality of jet grouting works, this Standard is formulated in line with the characteristics of hydraulic structures.

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7 Equipment

7.0.1 The drilling equipment for jet grouting hole shall be capable of drilling in the construction strata separately or together with the jet pipes.

7.0.2 Jet pipe, jet nozzle and grout deliver (also called high pressure tap) shall be with reliable sealing. They shall be easily assembled and disassembled. Jet pipe shall be rigid and connected smoothly and straightly. Jet nozzle shall be precisely directed.

7.0.3 Jet nozzle shall be made of wear resistant material, and its outlet diameter shall match the design pressure and flow. Structural dimension and machining precision of jet nozzle shall satisfy the requirement of high-velocity jet.

7.0.4 The performance of agitator shall be compatible with type and volume of grout and be capable of ensuring the uniformity of grout mixing. Suitable high speed agitator should be selected.

7.0.5 The volume of grout tank shall meet the requirement of continuous grout supply during jet grouting.

7.0.6 The performance of pumps for jet grouting (including high pressure pump) shall match the type and density of selected grout. Pressure and flow for grout pump and high pressure water pump shall meet the construction requirement, and the nominal pressure shall be not lower than 1.2 times the design pressure.

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