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Density Resolution Module

>>>Instruction<<<

Product Introduction and Structure

Solid Density Difference Standard Specimen

The solid density difference standard specimen is a series of density blocks with different densities from the base material (generally steel, aluminum, or plastic, etc.) inserted at specific positions on a homogeneous cylindrical rigid matrix material. Its structure is shown in Figure A.1. The matrix is a cylindrical body with a known density, and its height and diameter can be determined according to the actual situation.

The density blocks are cylindrical and are made of solid materials with fixed chemical composition, uniform texture, easy processing, and easy replication.

The density blocks are distributed around the circumference of the matrix, and the number should be no less than 5. The relative density difference between the density blocks and the base material should be determined according to the specific application, and it should generally cover the density resolution designed for the industrial CT system to be tested.

The height of the density blocks should be at least 3 times the slice thickness T.

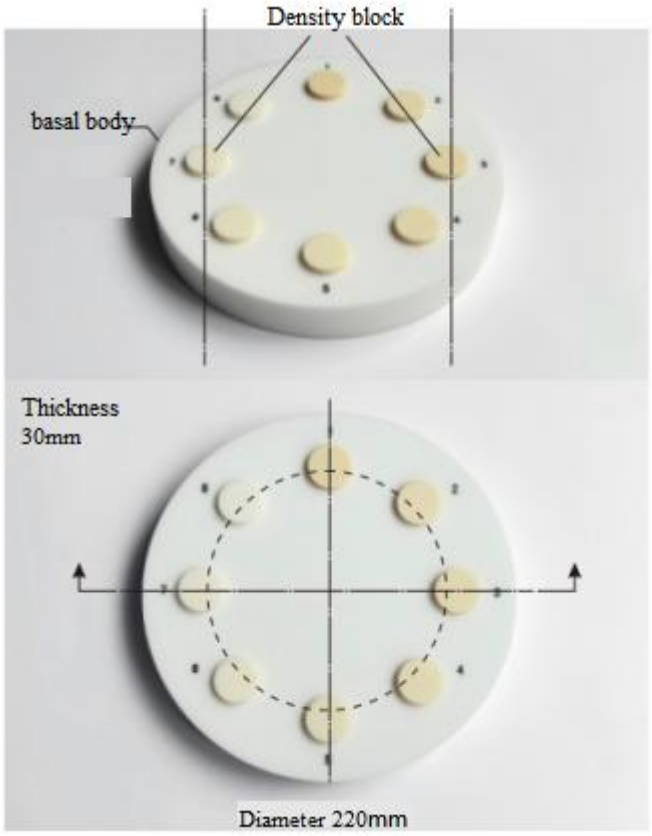

Figure A.1 Standard specimen for solid density difference