Determining Specific Gravity in Materials Testing

Materials testing measures the characteristics and behavior of substances like **metals, masonry, concrete** or **asphalt** under a variety of conditions to ensure that a product will function as intended and can endure the stresses of that function.

For the construction industry, testing the specific gravity of concrete is a way to ensure its reliability to handle weight without cracking or crumbling.

1

To utilize the Nimbus precision balance for specific gravity testing, **a sample is first weighed** on the balance's pan and the result is recorded.

2

Then, with Nimbus placed on a tabletop with a cutout, the sample is **placed in a basket** attached to the balance's weigh-below hook and **lowered into a container of water** below.

3

The balance records the weight of the submerged sample, compares it to the first result and calculates the sample's **specific gravity**.

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