

# Decoding Sediment: A Guide to Grain Size & Properties

## FUNDAMENTAL PROPERTIES

### Properties control how sediment moves.

They determine settling velocity, motion threshold, and transport type (bedload vs. suspended).



### Most sand is made of Quartz and Feldspar.

These minerals are highly resistant to chemical and mechanical weathering.



### Typical quartz sand has a relative density of ~2.65.

This constant is a key value used in many transport formulas like the Shields parameter.

## THE SCIENCE OF SIZING GRAINS

