

# Sample: 1(86)

**Grain 1:**

*Grain colour/transparency:*

- Yellow-pink/Translucent

*Grain shape/textures:*

- Well-rounded
- Highly-spherical
- Smooth, conchoidal fractures, abraded

*Modal abundance and grain size (estimated):*

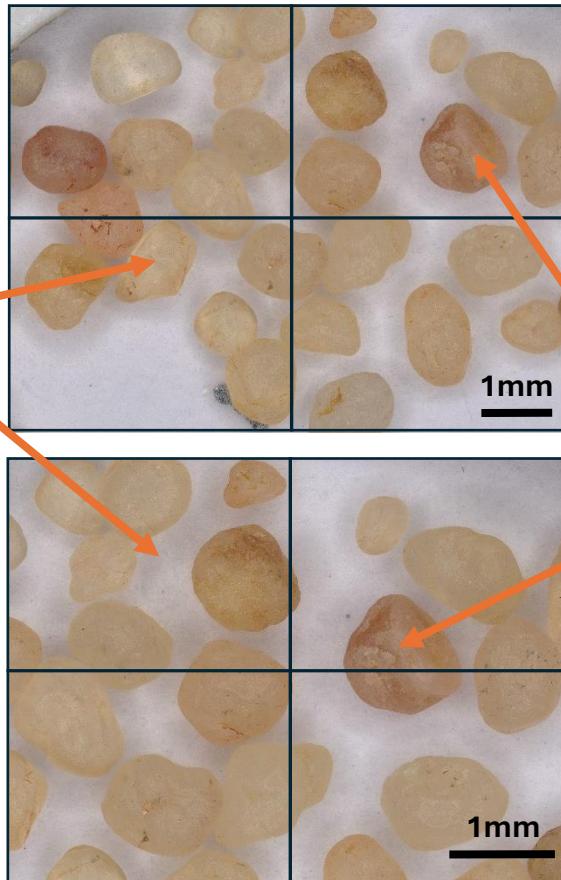
- ~98%, 0.7-1.2mm

*Mineral/rock identification:*

- Quartz (mineral)

*Other features:*

- Broken grains demonstrate conchoidal fracture typical of quartz
- Some grains have small opaque inclusions of feldspar



**Grain 2:**

*Grain colour/transparency:*

- Pink/Opaque

*Grain shape/textures:*

- Well-rounded
- Highly-spherical
- Angular fracture, abraded

*Modal abundance (estimated):*

- ~2%, 1mm

*Mineral/rock identification:*

- Feldspar (mineral)

*Other features:*

- Broken grains demonstrate angular fracture typical of feldspar

Images courtesy of Jordan Poole  
The University of Liverpool

**Summary:**  
*Sediment maturity:*

- Texturally mature:** the grains are well rounded and mostly spherical. **Mineralogically very mature:** primarily only one grain type – quartz.

*Provenance:*

- Distal from the source:** grains are mineralogically and texturally mature.

*Transport history:*

- Highly abraded surfaces demonstrate likely **aeolian transport**. Most grains similar size 1.0 mm: transport via consistent flow velocity.

**Source:**  
Libya  
Desert sand derived from distal quartz rich rocks.

*Formal grain sample name:*  
Well-sorted, mineralogically and texturally mature sand.