

# GRINDING OF ROCK

## Copper slate

Initial particle size:  
> 80 mm



**1**  
**Jaw Crusher**  
**BB 250**

- | Gap width: 15 mm
- | Final fineness: 40 mm



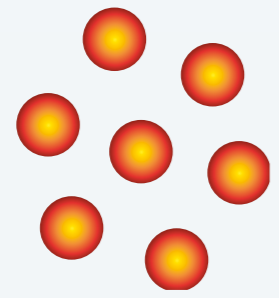
**2.1**  
**Jaw Crusher**  
**BB 50**

- | Gap width: 1,5 mm
- | Speed: 950 min<sup>-1</sup>
- | Final fineness: 2 mm



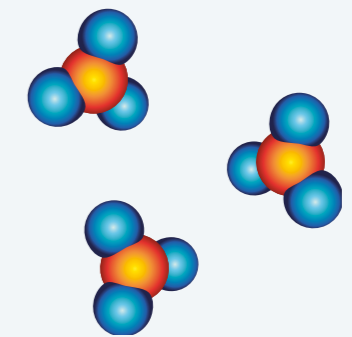
**2.1** +  
**2.2**  
**Jaw Crusher**  
**BB 50**

- | Gap width: 0,1 mm
- | Speed: 950 min<sup>-1</sup>
- | Final fineness: < 800 µm



**FOR XRF**

**FOR XRD**



**3**  
**Vibratory**  
**Disc Mill**  
**RS 200**

- | Grinding set: 100 ml
- | Material: Hardened steel
- | Speed: 1500 min<sup>-1</sup>
- | Grinding time: 2 min
- | Final fineness: 45 µm



**3**  
**Sample Splitter**

- | Sample division



**4**  
**Sieving**

- | Hand sieving
- | Aperture size: 500 µm

**4**  
**Pellet Press**  
**PP 40**

- | 12 g sample material + 3 g Licowax
- | Pressure force: 20 t
- | Pressure time: 15 sec, 1 step



**5**  
**XRD Mill**  
**McCrone**

- | Grinding elements: ZrO<sub>2</sub>
- | Grinding power: Level 4
- | Grinding time: 30 min
- | Final fineness: 5 µm