

Report No.: 11415
Date: 21.06.2006
Contact: DE

Task:

Application field: Mineralogy / Metallurgy

Material: **Ferro Alloys: FeCr / FeCr / FeV / FeMo**

Feed size: **60-80 mm**

Feed quantity: 3000 g (per sample)

Material specification(s): hard brittle, tough

Customer requirement(s): 5 mm; pre-crushing for following preparation in Vibratory Disc Mill RS 100

Subsequent analysis: X-ray Fluorescence Analysis

Solution:

Selected instrument(s): **Jaw Crusher BB 300**

Configuration(s): Jaw Crusher BB 300 with breaking jaws of precision-cast manganese steel

Parameter(s): Distance of breaking jaws: 5 and 2 mm (2 work steps)

Time: 2 min. (only hard brittle products)

Achieved result(s): FeCr , FeCr and FeMo: predominantly 5 mm

Remark(s): Due to their tough material properties the samples FeV and FeW are difficult to be crushed or rather not crushable (depending on the material composition).

Recommendation: A pre-crushing the Jaw Crusher BB 300 is only possible with hard brittle ferro alloys according to the above mentioned conditions.