

Task:**Application field:** Mineralogy / Metallurgy**Material:** Brown Coal Sand**Feed size:** 0-2 mm**Feed quantity:** 130 g**Material specification(s):** hard, dry**Customer requirement(s):** Sieve analysis 32 / 36 / 56 / 63 / 80 / 90 / 200 / 212 µm using AS 300 control**Subsequent analysis:** not defined**Solution:****Selected instrument(s):** Sieve Shaker AS 300 control
Sample Divider PT 100**Configuration(s):** PT 100: Dividing head aluminium, with 10 quick-release sample outlets; Wide-mouth bottles 250 ml, 10 pieces
AS 300 control: Test sieves acc. to ISO 3310-1, nominal aperture sizes 32 / 36 / 56 / 63 / 80 / 90 / 200 / 212 µm, sieve aids chain rings on sieves < 90 µm**Parameter(s):** Amplitude 1.2 mm, interval 10 sec**Time:** 15 min.

**Achieved
result(s):**

Results EasySieve:

Size class [mm]		p3 [%]	Q3 [%]
<	0.032	25.8	25.8
0.032 -	0.036	1.5	27.3
0.036 -	0.056	7.1	34.4
0.056 -	0.063	1.3	35.7
0.063 -	0.080	3.5	39.2
0.080 -	0.090	7.2	46.4
0.090 -	0.200	20.3	66.7
0.200 -	0.212	1.6	68.3
>	0.212	31.7	100.0

Remark(s):

The whole sample amount (1300 g) is divided using the sample divider PT 100. With 305 mm sieves about 200 g of sample can be applied to the sieve tower.

Recommendation:

The Sieve Shaker AS 300 control is suitable to analyse the sample material under the above mentioned conditions.