Test Report.

Report No.: **11885**

Task:

Application field:	Mineralogy / Metallurgy
Material:	**Metal Powder (TiC + Steel)**
Feed size:	**0-100 µm**
Feed quantity:	30 g
Material specification(s):	hard
Customer requirement(s):	Wet sieving, cut off the fraction < 20 µm
Subsequent analysis:	not defined

Solution:

Selected instrument(s):	**Sieve Shaker AS 200 control**
Configuration(s):	Collecting pan with outlet stainless steel, 200 mm ø, height 50 mm; Collecting pan with outlet stainless steel, 200 mm ø, height 50 mm; Test sieves Ø 200 mm x 50 mm height according to ISO 3310-1, aperture size 63 / 40 / 20 µm, cap with spray nozzle; venting ring between sieves
Parameter(s):	Amplitude 1.20 mm, interval 10 sec
Time:	3 min.
Achieved result(s):	40.6 % < 20 µm 41.5 % < 40 µm 13.6 % < 63 µm
Remark(s):	Prior to the wet sieving the solid sample is dispersed in water by agitation. 2-3 drops of detergent are added to decrease the surface tension. After charging the sample to the top sieve the sieving is started with a water flow of about 800 ml/min. After sieving the single sieve fractions are filtrated, dried and reweighed.

Recommendation: The Sieve Shaker AS 200 control is suitable to cut off the fraction < 20 µm from the sample material under the above mentioned conditions.