

PRECISION MACHINING & FINISHING

Micron+

FINELY TUNED FOR CONSISTENT PRECISION

——— *Element Six Micron+ is stringently processed to ever tighter specifications of size and shape to consistently meet the most exacting work-piece quality demands facing toolmakers today.*



elementsix[™]
a De Beers Group Company

MICRON+ MEETS PRECISE REQUIREMENTS

NEWLY REFINED PROCESSES FOR ASSURED CONSISTENCY

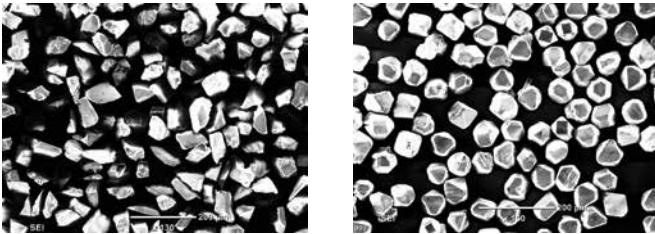
Element Six recognises that toolmakers need both optimised materials to fit precise tooling requirements, and materials that can be relied upon to deliver consistent performance from batch to batch.

Element Six's already stringent Micron processing and tight specification controls have now been further refined with;

- Further physical and systematic improvements in our processing facility, for reduced possibility of cross contamination
- Improved analysis techniques for tighter control over particle size and shape
- Certified Quality control processes
- Stringent control of purity and advanced cleaning to remove metals, silicates and other ceramics

CUSTOMISED SHAPES FOR YOUR APPLICATION

New image analysis equipment enables Element Six to measure and specify the shape of Micron particles. Materials can be specified based on aspect ratio measurement.



Element Six can tailor particle shapes to a wide range of shape requirements.

Element Six can also specify the maximum percentage of needles down to 2% or potentially lower, providing a more precise material that delivers;

- Improved quality and performance
- Increased capability to customise for demanding applications

ELEMENT SIX CAN HELP YOU DETERMINE THE CHARACTERISTICS YOU REQUIRE FOR YOUR APPLICATION, AND DELIVER TO YOUR EXACT SPECIFICATION

UP TO 25% TIGHTER SIZE PARTICLE DISTRIBUTION

With improved processing techniques, Element Six can now provide up to 25% tighter particle size distribution control.

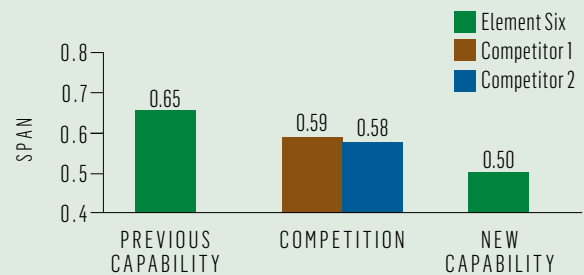
- All products 20 micron or less are subject to new large particle (LP) screening and quality inspection processes
- Removing up to an additional 3% of undesirable particles

This increased size control delivers;

- Consistent tool performance
- Improved efficiency due to reduced material waste
- Higher quality tools with fewer coarse scratches for ever finer grinding and polishing capability

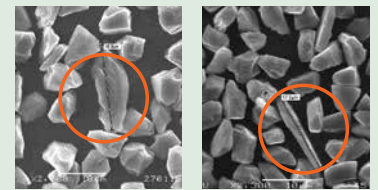
TIGHT SIZING CAPABILITY VS COMPETITION

RELATIVE SPAN



LARGE PARTICLE SCREENING REDUCES NEEDLES

*Needles are defined as particles with a length to breadth ratio of 2:1 or greater.



CERTIFIED QUALITY ASSURANCE

Element Six Quality Assurance is ISO certified.

Our Advanced certificate can accompany each Micron delivery at your request - to certify conformance to product specifications.



FIND OUT MORE ABOUT MICRON+

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