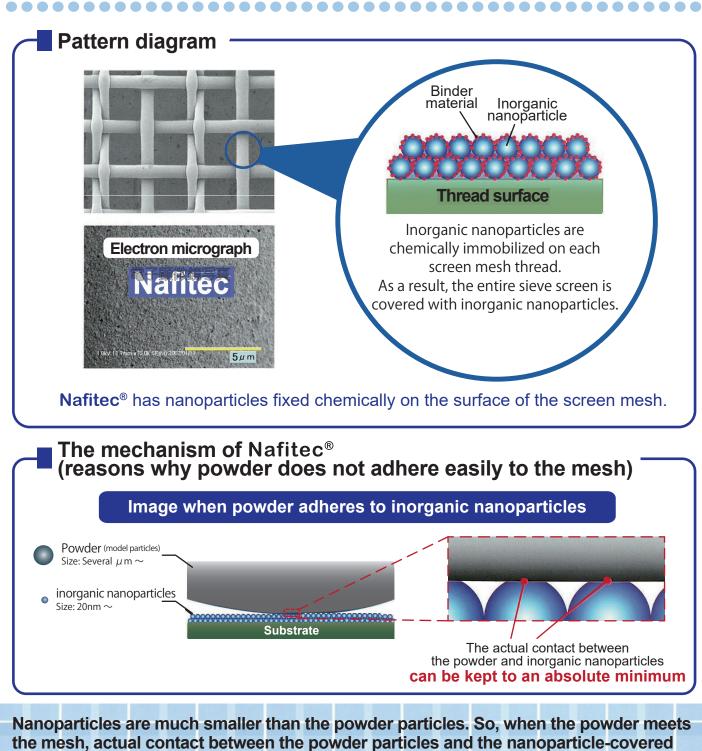


# Vafite

## **Functional inorganic** nanoparticle immobilization technology

Nafitec<sup>®</sup> is a functional inorganic nanoparticle fixing technology originally developed by NBC Meshtec!



surface of Nafitec<sup>®</sup> Sieve Mesh is kept to an absolute minimum. This prevents the powder from sticking to the Nafitec® Sieve Mesh, minimizing sieve blinding and enabling excellent powder throughput.

### **Compatible Powders**

Category	Particle Types	Advantages
Metal Powder	Silver, copper, nickel, metallic silicon alloy, iron powder	<ul> <li>Improves final sieving efficiency (speed)</li> <li>Improves sieving efficiency (yield)</li> <li>Reduces sieve blinding andfrequency of screen replacement (Longer service life)</li> </ul>
Polymer Powder	Toner, powdered paint, polyethylene (PE) powder, polytetrafluoroethylene (PTFE) powder, cellulose	<ul> <li>Improves sieving efficiency (speed)</li> </ul>
Ceramic Powder	Silicon dioxide, aluminum oxide, magnesium oxide, magnesium hydroxide, magnesium carbonate, metal oxide (for battery material)	Ilproves sieving efficiency (speed)
Other	Wheat flour, carbon, titanate, barium titanate, calcium carbonate, talc	<ul> <li>Ilproves sieving efficiency (speed)</li> <li>Reduces maintenance frequency</li> </ul>

Actual Adoption: Metal, Toner, Ceramic, Flour, Resin etc.

#### The specifications of Nafitec® sieve mesh -

According to the target powder, 3 types of Nafitec® specifications are suggested

 $Z \Rightarrow$  Particle size: Applicable to powders of tens of micrometers or more

 $S \Rightarrow$  Particle size: Applicable to powders of tens of micrometers

 $F \Rightarrow$  Applicable to powder with particle size of 10 micrometers or less

Materials  $\Rightarrow$  Compatible with all materials used for metal, nylon, polyester, and other materials for sieve mesh.

\* The particle size is an approximate value. The effect depends on the material and shape of the particles in addition to the particle size. Please contact us regarding selection of mesh screen specifications.

Maximize the effects of nanoparticles

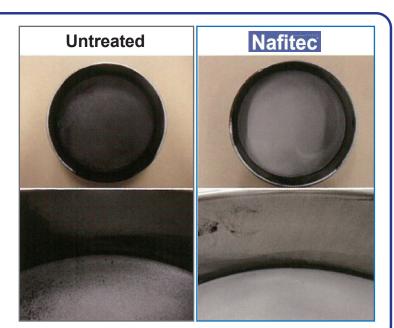
#### Nafitec<sup>®</sup> test sieve



Size : φ200 Nafitec<sup>®</sup> Specification: Z, S, F

Please use it for small-quantity production of powder products, quality confirmation, and testing before trial on mass production machines.

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We also offer custom-made products tailored to customer requirements. Please feel free to contact us.



Manufacturing Company: **NBC Meshtec Inc.** 2-50-3 Toyoda, Hino, Tokyo 191-0053, Japan TEL: 81-42-582-2413(international) 042- 582-2411(domestic) FAX : 81-42-584-1374 http://www.nbc-jp.com/eng/



Sales Company: **AAAmachine Japan, Inc.** HigashiShinbashi Bldg 2F, 2-10-10, Higashishinbashi, Minato-ku, Tokyo, Japan 105-0021

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Tel : +81(Japan)-3-6874-6481 Fax : +81(Japan)-3-4496-4617 https://www.aaamachine.co.jp (in Japanese)