Höganäs is among the market leaders in metal powder for hot polymer filtration. The highest quality of textile fibres are produced with spin-pack filtration media consisting of metal powder. Höganäs produces stainless steel metal powders in large volumes. These powders offer the benefit of resisting pressure and maintaining high porosity under filtration. Based on many years’ experience serving the textile industry, Höganäs has designed a special metal powder with high strength and high chemical stability for media in the spinning of polyester and polyamide yarn. The objective is to reach the best dyeability while also removing fines that can clog the spinneret and cause yarn breakage.

Stainless steel metal powder for hard particles and no fibre discolouration

The metal powder is composed of grain particles with a specific shattered shape. This offers the key benefit over mineral sand or glass beads of providing a good tradeoff between porosity volume and active surface area.

Höganäs recommends the P-270 grade, a stronger alloy compared to standard stainless steel 316L. To improve the yarn quantity, Höganäs recommends the P-271, a grade nobler and less oxidization-sensitive than standard stainless steel grade during pre-heating of the packs, a must for high-quality nylon production. For high pressure filtration, DP-1 is promoted for its high compaction resistance, thermal stability and its magnetic properties, as a nickel-free metal alloy.

Features:

- Metal powder filter media for high quality synthetic yarns
- P-271 grade optimized for nylon yarn production
- Consistent powder properties from lot to lot
- Chemical resistance to avoid discolouration
- No fine particles in the powder

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The best powder offering

During the spinning process, the key is to use the best combination of powder grain sizes for the filter media. Höganäs can offer customers its know-how in powder processes and propose the best selection of powders in accordance with ASTM and ISO powder standards with a wide range of sieve cuts.

SMART sieve cut packages for spin packs

Based on the main spin pack applications, Höganäs offers the most economic packages. There are four “SMART” packages containing an optimal set of sieve cuts (fine, medium, coarse and wide sieve cut packages).

Tailored powder for spin-pack

Other metal alloy and particle size distribution available on request.