J. RETTENMAIER & SÖHNE GMBH + CO KG JRS Fasern aus der Natur

Press Release

Rosenberg, Germany, March 2020

J. Rettenmaier & Söhne Unternehmensgruppe (JRS) (Hall 23 / Stand A32)

We, the JRS, J. Rettenmaier & Söhne Group, have dedicated ourselves to research, development and processing of high quality organic fibers and particles derived from vegetable raw materials. Caring for the ecological cycle is always a top priority to us. Therefore sustainable vegetable raw materials will always be the basis of our product philosophy in the future.

As an owner-managed, independent family business, we stand for innovation, long-term perspectives, reliability and security. The global orientation of JRS makes an optimal procurement of raw materials of the highest possible quality which is an important requirement in order to produce a wide variety of unique products. Our certified advanced production technology stands for top quality, innovative functionality and a perfect price/performance ratio.

We provide organic cellulose and lignocellulose particles modified for utilization in the ceramic industry. You can expect high-class purity combined with constant product performance. Outstanding quality is guaranteed by certified quality control. High variety enables optimal usage. Different structures lead into different effects in your production process as well as for the performance of your final ceramic products. Tailor-made selection of natural particles allows controlled improvement of your application.

Our products are available in various sizes and structures: long fibers, cubic particles, granules, spheres, and cellulose gels.

During sintering, the natural particles are completely burned out, so that pores remain. Pore volume, pore structure and pore size distribution are controlled. Advantages of higher porosity are: lightweight materials, controlled permeability, higher specific inner surface, acoustic and thermal insulation, improved thermal shock resistance, and increased capillary activity.

Correlation between porosity and flexural strength

Flexural strength decreases with an increase of porosity. With JRS cellulose particles the stability is still on a high level even for porosities up to 60 %. The lower the particle size of the pore creator, the lower its impact on flexural strength; as a result especially microporosity

becomes attractive for applications with high stability requirements.

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Figure caption

(Rettenmaier_1_2020.jpg)

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