CHROMITE SAND ENERGIZED BY Cromtec™
LANXESS – all the benefits:
Mining, processing, advice, delivery

To ensure efficient production processes, high-quality components and superior products, the foundry industry requires top-quality chromite sands – made to measure for specific needs. LANXESS has the performance levels to satisfy these demands.

LANXESS is a leading German specialty chemicals company and one of the world’s largest producers of chrome ore for chemical applications. We also supply chromite sand under the name of Cromtec™ for a wide range of industrial applications. What’s more, we now supply the foundry industry direct. And we subject our products to special processing for specific applications.

Consistent product quality means consistent parameters in your production processes

Always the same mine, always the same processing methods, always the same reliable checks – and always the same high quality for you. With Cromtec™ from LANXESS, there are no unpleasant surprises and no changes to your process parameters. You can forget about rejects and reworking due to quality fluctuations in the chromite sand. What you can expect are optimized operating processes and increased productivity.

As we have our own chrome ore mine in South Africa, we can tailor all the processing stages from the mining to the finished product to our own high standards. So here, too, the name LANXESS stands for premium quality.

The know-how that our specialists contribute is a further key benefit for our customers. These experts have a great deal of practical experience and are familiar with the requirements of all the different market segments. LANXESS’s Cromtec™ service is rounded off by optimized logistics and delivery processes that are systematically adapted to customer needs.

From mine to end user, we take care of everything ourselves. Everything is geared to you, our customers, to ensure your success!

- Operating our own mine ensures long-term raw material and delivery reliability
- High-quality chrome ore deposit
- Stable production properties thanks to multi-stage controls throughout the production and supply chain
- Reliable removal of impurities and fine particles
- State-of-the-art processing technology for drying and dust removal
- Specific forms of delivery to suit customer needs
- Competent advisory service by our specialists

Our mine boasts significant ore reserves just waiting to be extracted. This ensures that our customers will enjoy a reliable supply of raw materials over a period of many years.

Our quality products are packaged as required by each individual customer and supplied using all standard forms of shipment – from silo trucks to big bags and paper bags.
Cromtec™ – Premium-quality foundry sand with that decisive plus

Cromtec™ from LANXESS combines the entire spectrum of intrinsically outstanding properties of chromite sand with a whole raft of other practice-related benefits. For our customers that means optimal product properties and hence optimal efficiency.

<table>
<thead>
<tr>
<th>Property</th>
<th>Advantage</th>
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<tbody>
<tr>
<td>Uniform grain size</td>
<td>minimal amount of fines, no need for readjustment when using binder</td>
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<tr>
<td>Uniform chemistry</td>
<td>no change to the typical properties of chrome ore</td>
</tr>
<tr>
<td>Minimal amount mineral impurities</td>
<td>prevents uncontrolled bonding or sintering processes that could lead to metal penetration</td>
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<tr>
<td>Reliability of supply</td>
<td>management of the entire supply chain by LANXESS</td>
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<tr>
<td>Low thermal expansion</td>
<td>narrow tolerances, less rework</td>
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<tr>
<td>Higher thermal conductivity</td>
<td>more rapid cooling, uniform solidification, even in the case of different wall thicknesses</td>
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<tr>
<td>Excellent refactoriness</td>
<td>better surfaces, less cleaning</td>
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<tr>
<td>Magnetic properties</td>
<td>can be regenerated and used several times</td>
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<tr>
<td>High specific gravity</td>
<td>reduced floating of the cores, long and thin cores can be produced</td>
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</tbody>
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The starting material is always LG6 chrome ore from our own mine, ensuring optimal results.

Everything you need for top-quality castings

Foundries have been using our chromite sand successfully for many years. Now we are offering our top-quality chromite sand under the brand name Cromtec™ 50. The advantage to our customers is that there are no fluctuations in the quality of the sand due to chrome ores of different origins being mixed together.

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<thead>
<tr>
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<th>CR₂O₃</th>
<th>SiO₂</th>
<th>AFS</th>
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<tbody>
<tr>
<td>Cromtec™ 50</td>
<td>min. 46,0%</td>
<td>max. 1,0%</td>
<td>50</td>
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Cromtec™ grading

You can tell the high quality of Cromtec™ foundry sand from the size of the individual grains and their quantitative distribution in the various grain size fractions. Foundries that use our product can be sure that the sand will always be in an optimal grain size fraction curve in line with the AFS specification.
It's worth finding out more about **Cromtec™**
We look forward to hearing from you

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The purity and properties of chromite sand can be examined under a microscope.

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