This information is based upon our present knowledge and experience, and is intended to provide general notes about our products and their uses. AlzChem therefore assumes no liability for such information or advice, including the suitability of such information or advice for a particular application or the extent to which such information or advice may relate to third party intellectual property rights or to laws and provisions.

It is the sole responsibility of the customer to arrange for incoming products to be inspected and tested by qualified experts.

Edition: 2017/06 (This publication supersedes all previous publications for this product group.)
AlzChem’s products serve a variety of global industries such as chemical, metallurgical, gas and agricultural. In the metallurgical segment, our strength and competence come from our long-lasting experience, high production capacity and close customer relationship. We offer reliability, quality, flexibility and innovation.

AlzChem has got a long and successful history in metallurgy and stands for tradition and innovation. We are here to serve our customers with excellent solutions.

Calcium Carbide – the multi-talent in metallurgy.
AlzChem provides outstanding solutions in the primary and secondary metallurgy of steel and for the production of acetylene gas. Our main products are all based on Calcium Carbide.

CaD Mixtures for hot metal desulfurization based on Calcium Carbide
- Shortest process time for lowest sulfur contents
- Fine powdered for smooth injection process
- Large production capacity
- Special blends drastically reduce iron losses
- Detailed know-how in logistics
- Tailored products for highest efficiency
- Complimentary products like slag binder, lime and magnesium can also be offered

Calcium Carbide - The multi-talent in metallurgy / Base material for acetylene production
- Desulfurization with fine powdered product by injection technology
- Cost efficient desulfuration at tapping
- Slag reduction for a powerful slag, reduced alloy fading and less refractory wear
- Granulation range from 0.1 to 20 mm
- Lumpy product (25 to 80 mm) for the production of acetylene gas
- Approved packaging in containers and drums

Calzot® Nitrogen alloying of liquid metal based on calcium cyanamide
- Constant and high nitrogen content of 23.5 %
- Lowest level of detrimental side elements
- Different granulations and packaging fitting the application technology
- Significant cost savings compared to nitrided Ferro-alloys
- Calzot® cored wire for highest yield and precision
- Non-dangerous good

Whether it comes to desulfurization, desoxidation, or slag treatment, Calcium Carbide is definitely the product of choice. Latest developments in the field of Calcium treatment with Calcium Carbide are extremely successful and will change the practice of cored wire injection.

With our knowledge of more than 105 years of Calcium Carbide production in Europe finding new and sophisticated solutions for our customers has always been our top priority. This search led, for instance, to the development of hot metal desulfurization by injection technology. Today we are facing new challenges due to the steadily increasing requirements on steel products such as more and more complex alloying concepts as well as the requirement for highest resource efficiency. These challenging demands make us continuously search for new solutions targeting economic processes and high-quality final products.