

# GRAPHITE LANCES

For the cleaning of non-ferrous-metal melts, e.g. aluminium, processes are used in which gases are introduced into the melts in exact quantities. Our graphite lances for gas-injection consist of a graphite tube with a porous head.

Our standard **graphite lances JU/RXN** are available in following sizes:

| <u>Type</u> | <u>Ø Outside (mm)</u> | <u>Ø Inside (mm)</u> | <u>Length (mm)</u> |
|-------------|-----------------------|----------------------|--------------------|
| JU/RXN-850  | 52 +3/-1              | 12 ±1,5              | 850 ±2             |
| JU/RXN-1250 | 52 +3/-1              | 12 ±1,5              | 1250 ±2            |

### **Porous head:**

| <u>Type</u> | <u>Ø Outside (mm)</u> | <u>Porosity (%)</u> | <u>Grade</u>        |
|-------------|-----------------------|---------------------|---------------------|
| EL/N        | 100x100               | 25 – 30             | carbon and graphite |

### **Technical data (typical ranges)**

| <u>Nomenclature</u>           | <u>Values</u> | <u>Unit</u>         |
|-------------------------------|---------------|---------------------|
| Bulk density                  | 1,72 – 1,75   | g/cm <sup>3</sup>   |
| Porosity                      | 14 – 17       | %                   |
| Spec. electrical resistance   | 6 – 8         | Ωmm <sup>2</sup> /m |
| Compressive strength          | 30 – 40       | N/ mm <sup>2</sup>  |
| Bending strength              | 2- - 25       | N/ mm <sup>2</sup>  |
| Ash content                   | <0,1          | %                   |
| Thermal expansion coefficient | 1,8 – 2,5     | 10 <sup>-6</sup> /K |
| Thermal conduction            | 120 – 140     | W/m K               |
| Max. grain size               | 0,6           | mm                  |

