

| Variety<br>denomination | Binding | Raw material<br>base | Al <sub>2</sub> O <sub>3</sub> % | SiO <sub>2</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | SiC % | C % | RD<br>g/cm³ | Po<br>Vol. % | KDF MPa | DE t <sub>90</sub> °C |
|-------------------------|---------|----------------------|----------------------------------|--------------------|----------------------------------|-------|-----|-------------|--------------|---------|-----------------------|
|-------------------------|---------|----------------------|----------------------------------|--------------------|----------------------------------|-------|-----|-------------|--------------|---------|-----------------------|

CONTINUOUS FEED

|                   |         |            |    |    |     |  |  |      |    |    |       |
|-------------------|---------|------------|----|----|-----|--|--|------|----|----|-------|
| Antelco 402       | ceramic | Fireclay   | 48 | 47 | 1.1 |  |  | 2.35 | 15 | 70 | 1,440 |
| Steuler ST 403 LW | ceramic | Fireclay   | 35 | 58 | 1.8 |  |  | 1.45 | 40 | 20 | 1,260 |
| Suprema SA 633    | ceramic | Andalusite | 63 | 34 | 1   |  |  | 2.6  | 16 | 80 | 1,560 |

IMPACT AREA

|                    |                  |                      |    |    |     |   |    |      |    |     |       |
|--------------------|------------------|----------------------|----|----|-----|---|----|------|----|-----|-------|
| Suprema SA 605 P   | ceramic-chemical | Andalusite           | 60 | 36 | 1   |   |    | 2.6  | 13 | 120 | 1,620 |
| Suprema SA 710 HX  | Resin-bonded     | Andalusite, Corundum | 74 | 23 | 1   |   | 10 | 2.8  | 6  | 60  | -     |
| Suprema KE 906 HSX | Resin-bonded     | Corundum/SiC         | 90 | 1  | 0.3 | 7 | 6  | 3.15 | 9  | 70  |       |

WEAR LINING

|                    |              |                     |    |      |     |  |    |      |    |     |         |
|--------------------|--------------|---------------------|----|------|-----|--|----|------|----|-----|---------|
| Suprema B 80       | ceramic      | Bauxite             | 81 | 13   | 1.3 |  |    | 2.8  | 18 | 90  | 1,510   |
| Suprema B 804      | ceramic      | Bauxite             | 82 | 12   | 1.3 |  |    | 2.78 | 21 | 90  | 1,500   |
| Suprema SA 60      | ceramic      | Andalusite          | 60 | 38   | 1   |  |    | 2.58 | 14 | 90  | 1,600   |
| Suprema SA 65      | ceramic      | Andalusite/Corundum | 65 | 33   | 0.8 |  |    | 2.65 | 13 | 110 | 1,635   |
| Suprema KS 954     | ceramic      | Corundum/Spinel     | 95 | 0, 2 | 0.2 |  |    | 3.18 | 18 | 70  | > 1,670 |
| Suprema SA 705 HX  | Resin-bonded | Andalusite/Corundum | 70 | 28   | 0.7 |  | 5  | 2.9  | 6  | 70  |         |
| Suprema SA 706 HX  | Resin-bonded | Andalusite/Corundum | 70 | 28   | 0.7 |  | 6  | 2.9  | 6  | 70  |         |
| Suprema SA 710 HX  | Resin-bonded | Andalusite/Corundum | 74 | 23   | 1   |  | 10 | 2.8  | 6  | 60  |         |
| Suprema SA 726 HSX | Resin-bonded | Andalusite/Corundum | 72 | 20   | 0.4 |  | 6  | 2.92 | 8  | 60  |         |
| Suprema B 905 HX   | Resin-bonded | Bauxite             | 91 | 4    | 0.9 |  | 5  | 3.05 | 9  | 70  |         |
| Suprema KM 907 HX  | Resin-bonded | Corundum/Magnesia   | 92 | 0, 3 | 0.2 |  | 6  | 3.18 | 9  | 60  |         |
| Suprema K 985 H    | Resin-bonded | Corundum            | 94 | 2    | 0.2 |  | 5  | 3.3  | 6  | 70  |         |
| Suprema KE 986 HX  | Resin-bonded | Corundum            | 98 | 1    | 0.3 |  | 6  | 3.2  | 9  | 70  |         |

All details in this sheet are accurate to the best of our knowledge at time of printing.  
No liability on our part can be inferred nor can such be accepted on the basis of the information given here: **PTT 0149 2502 EN**

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STEULER Refractory Linings

REFRACTORY LININGS  
PIG IRON AND STEEL  
TRANSPORTATION

FOCUS ON PERFORMANCE



# LININGS FOR PIG IRON AND STEEL TRANSPORTATION

Torpedo ladles must ensure safe transport of the pig iron from the blast furnace to the steelworks. For this application, Steuler offers fired andalusite and bauxite grades which withstand these complex conditions.

For special requirements, Steuler Linings offers a wide range of high-quality alumina products with various additives such as SiC, chromium oxide and zircon.

Steuler maintains a comprehensive range of shapes for lining different size ladles. This makes it possible to satisfy the lining requests of customers flexibly at all times.

## OUR PORTFOLIO OF INNOVATIVE LINING CONCEPTS

- Torpedo ladles
- Transfer ladles
- Teeming ladles
- Pig iron ladles
- Permanent safety lining for steel ladles

## LINING MATERIAL

- Backing bricks
- Insulating firebricks
- High-quality permanent safety lining with emergency running properties
- Wear lining and bottom lining of fired clay bricks as well as resin-bonded AC and ASC bricks

## PROPERTIES OF OUR PRODUCTS

- Reduces wettability by slag and pig iron depending on the application with SiC additive and other carbon additives
- Improve thermal shock resistance and thermal flexibility
- CO-resistant backing such as permanent lining ensures excellent resistance for safety in long-term operation

## ENGINEERING AND DESIGN

### THE RIGHT MATERIAL AND THE RIGHT ENGINEERING

- Development and selection of suitable materials
- Technical application advice and complete engineering concepts for lining details and processes
- In-house production and expert installation of refractory lining technology
- Large selection of materials and production technologies that meet technical and economic requirements

### OPTIMIZATION THROUGH DETAIL ENGINEERING

- Advice on increasing efficiency and safety
- Support with planning and design to optimize performance