

# Stabil

high chemical resistance over larger temperature range

## Introduction

Stabil crucibles are carbon-bonded silicon carbide crucibles, which are characterised by excellent thermal conductivity and high chemical erosion resistance. Due to their carbon content, SiC crucibles have excellent stability at high temperatures and are therefore particularly suitable for processes where the temperature is changing frequently and where high heating rates are utilized.

## Applications

Stabil crucibles can be used for the holding of all non-ferrous alloys. Stabil crucibles are suitable for melting heavy metal alloys. Additionally, they are resistant to chemical attack by fluxes. Stabil crucibles are suitable for electric resistance heated and fuel fired and induction furnaces.

**Stabil HT / VO** crucibles are particularly appropriate for melting copper and bronze alloys in furnaces with high power and high heating rates.

**Stabil U IND** crucibles are suitable for medium frequency induction furnaces for melting and holding. They perform well under difficult operating conditions.

## Typical Metal Casting Temperature

**Stabil HT / VO:** 800°C - 1400°C (1472°F - 2552°F)

**Stabil U / U IND:** 700°C - 1000°C (1292°F - 1832°F)

## Performance Characteristics

- Outstanding thermal shock resistance
- Very good thermal conductivity
- Good resistance to chemical erosion
- Good thermal shock resistance
- High mechanical strength
- High oxidation resistance

## Identification

Stabil crucibles are coloured black and utilize the suffix C to denote the type.

## Pattern Range

Stabil crucibles are available in a wide range of sizes and shapes. Sizes can be made available with pyrometer holes to facilitate measurement of metal temperature. A wide range of pouring lips and spouts is available.

## Quality

Stabil crucibles are manufactured from premium grade raw materials under an ISO 9001:2015 quality management system.

For more information, contact us today.

