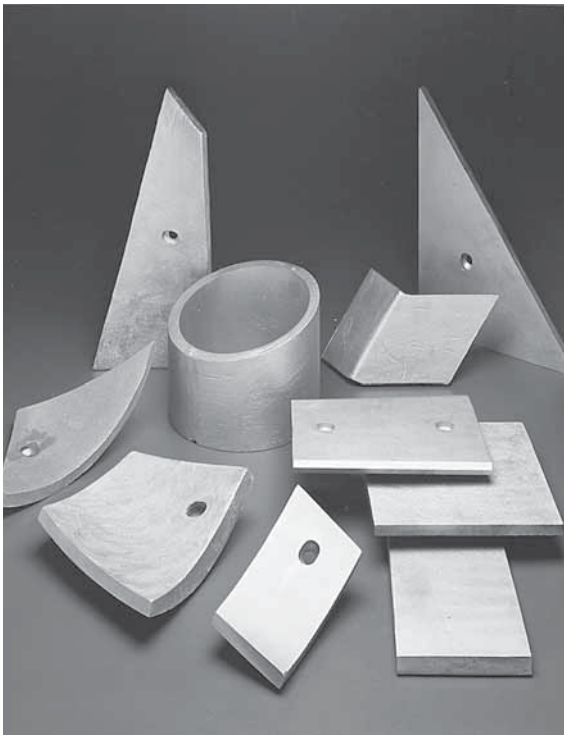


Hard or Shock-Resistant...

## Hard Casting KALMETALL-C Offered in Different Alloys



Hard cast materials of varying properties are offered under the designation KALMETALL-C. They are distinguished by:

- high resistance against wear by abrasion combined with satisfactory resistance against impact wear, or
- high resistance against impact wear combined with satisfactory resistance against wear due to abrasion

KALMETALL-C shaped elements are produced by casting. This allows the manufacture of linings having complicated geometrical shape.

Standard dimensions of the castings are up to 300 x 300 mm. Their wall thickness ranges between 15 mm and 70 mm.

Diameters between 40 and 800 mm are offered for pipes at standard lengths of 300 mm. Wall thicknesses range from 15 mm to 70 mm.

### The benefits of KALMETALL-C:

- cast metallic wear protection offered in varying thickness
- depending on the alloy chosen, the material combines high wear resistance with satisfactory impact strength or high impact strength with satisfactory wear resistance
- optimal flexibility in casting to most varying geometries
- cost efficient production of like components

**At Any Rate the Correct Material:**

# **KALMETALL-C is the Optimal Solution for Varying Applications**



*Shaft spiral used for hard coal mining and fitted with time-tested KALMETALL-C lining*



*A coke ramp protected by KALMETALL-C in combination with silicon carbide ceramics KALSICA and hard ceramics KALCERAM-K*

## **Technical data (reference values)**

KALMETALL	Chemical composition in %					Hardness HV	Max. application- temp. °C / °F	Resistant against	
	C	Cr	Mo	Mn	Fe			abrasion	impact
<b>C 101</b>	1,2	–	–	13	82	580*	300 / 572	x	xx
<b>C 153</b>	3	16	1	–	78	620	350 / 662	xx	x
<b>C 155</b>	3	20	2	–	70	700	350 / 662	xxx	x

\* strain-hardened

## **Typical applications**

- chute linings
  - straight chutes
  - spiral chutes
- fan housings
- floors of concrete mixers
- hammers
- linings for roller mills
- mill lining
- mixer blades
- pump housings
- screws

## **Fastening systems for KALMETALL-C**

The standard fastening systems for KALMETALL-C are of mechanical type. These include threaded conical screws made of KALMETALL-C.

The cast shaped elements may also be installed with the aid of adhesives based on resin or minerals as well as by means of heat and acid resistant cements.

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