

# ABRA-FACE 65-450®

## Wear-resistant clad plates

The **ABRA-FACE 65-450® wear-resistant clad plates** are **composite plates** combining a steel substrate with a **chrome carbide and complex carbide hardfacing**.

With an **exceptional hardness** of **59 to 63 HRC**, they offer **outstanding resistance to abrasion and impact**. These carefully selected characteristics guarantee **optimal durability** and **high performance**.

The **ABRA-FACE 65-450® plates** also stand out for their **excellent formability**, allowing operations such as **rolling or bending** with ease.

## PROPERTIES & APPLICATIONS

The **ABRA-FACE 65-450® plates** are ideal for industries facing **high abrasion** challenges. Their coating, specifically designed as an **abrasion protection layer**, does not have its own **mechanical properties**. The **mechanical strength** of the parts is provided by the **steel substrate**.

These plates offer **excellent abrasion resistance**, even at **service temperatures** reaching **450°C**. They are available **customized**, cut or formed according to your specific needs.

**Main applications** : *Crusher shields and conveying systems, wear shells, chutes, troughs, transport or grinding screws, knives, blades, hoppers, tanks, etc.*

## CHEMICAL COMPOSITION

**Mass Composition in %**

C	Si	Mn	Cr	Ni	B	Fe
5	1	0.5	22	7	0.5	Reste

## MECHANICAL PROPERTIES

The coating has no inherent **mechanical properties** and should be considered as an **abrasion-resistant layer**. The **mechanical strength** of the parts is provided by the **steel substrate**.

**Typical values for the S235JR steel substrate:**

Rp 0.2 : 235 MPa  
Rm : 360 - 510 MPa  
A% : 22

**Deposit Hardness:** 63 HRC / Low dilution deposit

## DIMENSIONS

**Standard Format:** 1500 x 3000 or 2000 x 3000

The **ABRA-FACE® plates** can be delivered **cut and shaped** according to requirements.

## THICKNESSES

4+2, 5+3, 6+4, 8+5, 12+8, 20+5, 25+5

## **APPLICATION**

The ABRA-FACE 65® plates have good forming and bending properties.

They can be mechanically welded, provided the connections are made on the base plate using a suitable welding product.

**Additional hardfacing** : possible with our FCW 65® wire.

The service temperature should be limited to 450°C. For temperatures above this, please contact us.