

ABRA-GLIDE®

Smooth clad plates

The **ABRA-GLIDE® wear-resistant clad plates** are **composite plates** combining a steel substrate with a **smooth hardfacing** based on **chrome carbides**.

Exceptionally resistant to **abrasion**, with minimal cracking, the hardfacing has a **hardness of 58-62 HRC**. The **ABRA-GLIDE® plates** offer **temperature resistance up to 450°C** and have **great impact resistance**.

PROPERTIES & APPLICATIONS

ABRA-GLIDE® consists of a **S235 construction steel base plate** and an **abrasion-resistant hardfacing** applied by fusion. This hardfacing is free from **weld beads, cracks**, and features a **smooth, low-friction surface**.

ABRA-GLIDE® is recommended for its **wear resistance, shock resistance**, and **anti-clogging properties** due to its completely **smooth hardfacing surface**.

The **ABRA-GLIDE® plates** are available **cut and shaped** according to specific requirements.

Main applications : Screening, shielding, sliding plates, hoppers, etc...

CHEMICAL COMPOSITION

Mass Composition in %

C	Cr	Mn	Mo	Ti + Nb + V	Fe
3.5	27	< 1.5	< 1.5	< 1.5	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: 58-62 HRC / Low dilution deposit

DIMENSIONS

Standard Format: 3000 x 1000

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

THICKNESSES

5+5 / 6+6 / 10+10 / 12+12

Groupe BMI

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APPLICATION

The **ABRA-GLIDE®** plates have good **cutting properties** with standard methods (plasma, laser). Due to the nature of the hardfacing, **forming and bending** can present challenges. In this case, the hardfacing must **always be on the outer side of the radius**.

The **minimum bending radius** is **15 times the thickness**.

ABRA-GLIDE® is **mechanically weldable**, ensuring that the connections are made on the base plate with an **appropriate welding product**.

Additional hardfacing can be done with our **FCW 63® wire**.