



Hardfacing Types



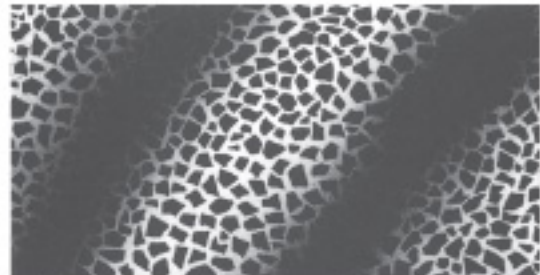
Schoeller-Bleckmann offer a complete range of Hardfacings to suit all drilling conditions. Experience in the North Sea has assisted Schoeller-Bleckmann to develop improvements on wear characteristics and matrix hardness. Extensive research in-house has increased reliability in bonding.

HF 1000

Crushed tungsten carbide held in a nickel bronze matrix. The 3 mm grain size ensures greater concentration of carbide which is ideal for soft formation drilling.



Sections through hardfacing.

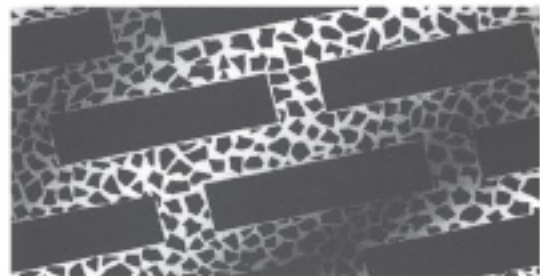


HF 2000

Trapezoidal tungsten carbide inserts held in a sintered carbide nickel bronze matrix. This will give a greater depth of carbide coverage – ideal for high deviation drilling in abrasive formations.



Sections through hardfacing.



HF 3000

Tungsten carbide inserts set in a powder spray deposit ideal for abrasive formations. 97% bonding guaranteed, certified by ultrasonic report. Recommended for non-magnetic stabilizers.



Sections through hardfacing.

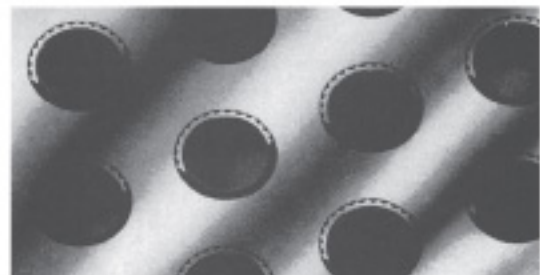


HF 4000

Tungsten carbide inserts (button type). The inserts have been developed to allow cold insertion and maintain close fit. A greater concentration of inserts on the bottom third of the blade and leading edge will increase surface contact to reduce wear in highly abrasive formations.

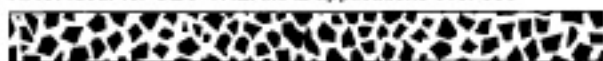


Sections through hardfacing.

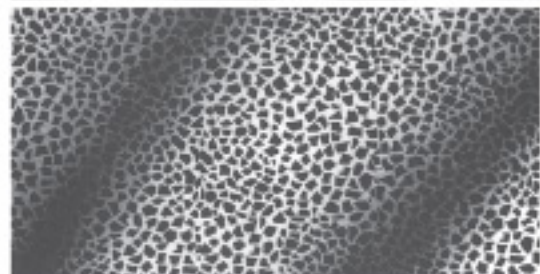


HF 5000

This oxy-acetylene process applies tough molten carbide particles of varying sizes held in a nickel chrome matrix which provides excellent bonding properties and greater surface wear characteristics are achieved. Surface hardness levels over 40 HRC. Ideal for GEO-THERMAL applications over 350°



Sections through hardfacing.



HF 6000

This process is a highly automated way of applying hard face and utilizes a combined arc/plasma stream on the work piece surface. This results in low base metal dilution and a dense, uniform coating, the filling medium can be variety of hardfacing consumables.



Sections through hardfacing.

