

# DURCAST®

## WELDABLE WHITE IRONS

DURCAST achieves the impossible: making a highly wear-resistant white cast iron easily weldable.

As part of the high-performance materials carefully selected by PRODUR, the DURCAST® wear block is composed of chrome-molybdenum cast iron blocks metallurgically bonded to a weldable S235 steel base.

By cleverly combining these two materials, we obtain the DURCAST block.



## COMPOSITION

This hybrid material takes advantage of the positive properties of each component, providing an optimal solution for demanding applications

BASE S235	WHITE CAST IRON BLOCK
Easy welding Machinability Easy forming Impact resistance (shock absorber function)	Very high wear resistance Excellent performance in severe abrasion conditions Corrosion resistance due to chrome content Specific shapes obtained by casting

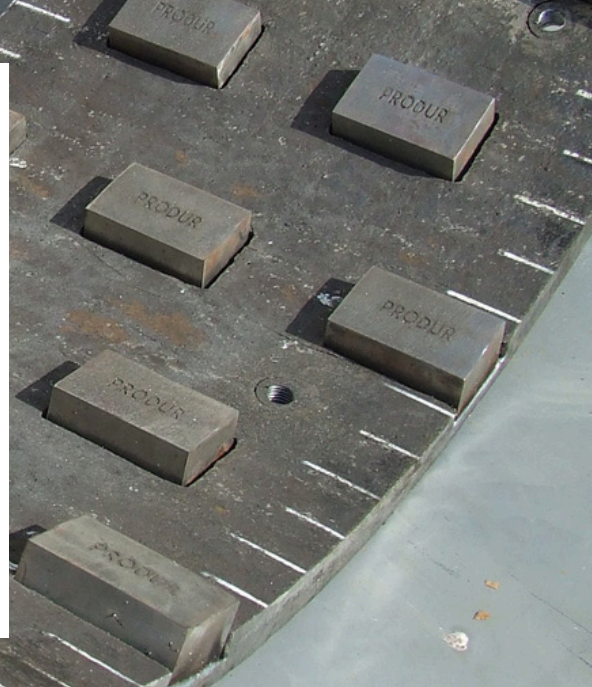


White cast irons, known for their hardness and exceptional wear resistance, often pose challenges for welding and fastening techniques due to their brittleness. On the other hand, S235 steel is relatively easy to work with but offers limited wear resistance.

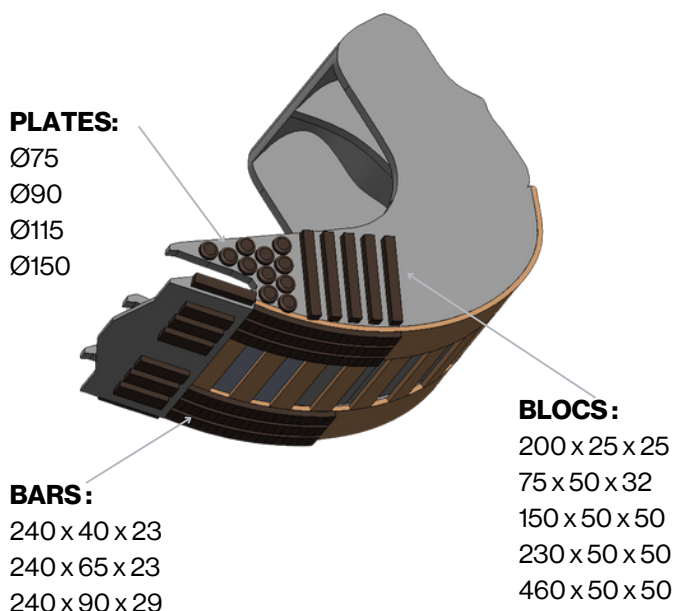
**DURCAST®** is particularly suitable for treating areas of severe and limited wear, areas of severe abrasion under high stress, or impact zones.

Mill sides  
 Bucket sides  
 Bucket bottoms  
 Trencher  
 Stone boxes

This list is not exhaustive. Please contact us to see if DURCAST® is the right solution for your specific needs.



## STOCK PROGRAM



## MECHANICAL CHARACTERISTICS

Base	Acier doux type S235
Bonding	Inert atmosphere copper base Mechanical strength >2
Cast iron	Martensitic white cast iron, CrMo 15-3 grade Average hardness 700 HV Matrix hardness 650 HV Carbide hardness 1300 HV Minimum carbide volume 30%

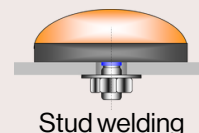
## FASTENING METHOD

### The peripheral welds of the wear block must be protected:

Either by positioning the elements to prevent abrasive material movement over the weld (staggered mounting).

Or by using DURCOR tubular electrodes for final protection.

Or by combining both techniques.



Stud welding



Peripheral welding



Plug welding



Plug and peripheral welding