

# soudokay

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## CORED WIRE, STRIP & FLUX

Designed for overlaying, maintenance & repair in **STEELWORKS**

| Soudokay, within the Böhler Welding Group, is specialised in research, production and sales of flux cored wire for hardfacing and strip/flux products for strip cladding.

Please contact us for more information.

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| Soudokay can modify this document without any previous notice.  
The list of products present in the Soudokay catalogue is not restrictive.

## 1 SELECTION OF MOST APPLIED PRODUCTS

The range of Soudokay products is much wider.  
Complete catalogue is available on request: doc-FCAW-SMAW-S-03/08-EN  
e-mail: soudokay@soudokay.be

*We have the solution*

|                              | PRODUCT                                                         | HARDNESS                   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|-----------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMPACT RESISTANCE            | SK 258 L-SA                                                     | 45 HRC                     | <p>I Martensitic alloy giving a very good resistance to metal-to-metal and low stress abrasive wear at high temperature. The deposit is crack-free, heat treatable and forgeable.</p> <p><b>APPLICATIONS:</b> Steel mill rolls, blast furnace bells (seat area), dredger-buckets cylinders...</p>                                                                                                                                                                                                                                                                                                            |
|                              | SK 258 TIC-O                                                    | 57 HRC<br>Wear Index 4     | <p>I Martensitic Chromium-Titanium alloy designed to resist high stress abrasion with heavy impact. Deposits usually do not relief check.</p> <p><b>APPLICATIONS:</b> Crusher rolls, crusher hammers, asphalt mixer blades, agricultural tools, shovel bucket teeth and lips, bulldozer blades, cane knives and shredders, bed knives in the wood pulp industry...</p>                                                                                                                                                                                                                                       |
| ABRASION RESISTANCE          | SK 866 - O                                                      | 62 HRC<br>Wear Index 2     | <p>I Alloy designed to resist high stress grinding abrasion with low impact. The deposits will readily stress relief check crack.</p> <p><b>APPLICATIONS:</b> Palm oil expeller screws, groundnut oil expeller screws, cement conveyors screws, catalytic pipes, dredge pump impellers, dredge cutters, shovel bucket teeth...</p>                                                                                                                                                                                                                                                                           |
|                              | SK A43 - O                                                      | 63 HRC<br>Wear Index 0,3   | <p>I Chromium-Niobium alloy designed to resist high stress grinding abrasion at service temperature not exceeding 450°C. The deposits will stress relief check readily.</p> <p><b>APPLICATIONS:</b> Wear plates, groundnut oil expeller screws, screen in the coal industry, bucket teeth on bucket-wheel excavators, shovel bucket teeth and lips...</p>                                                                                                                                                                                                                                                    |
|                              | SK A45 - O                                                      | 63 HRC<br>Wear Index 0,2   | <p>I Chromium-Niobium-Molybdenum alloy with addition of Tungsten and Vanadium designed to resist high stress grinding abrasion with low impact and solid erosion at service temperatures up to 650°C. The deposits will readily stress relief check crack.</p> <p><b>APPLICATIONS:</b> Wear plates, Sinter finger crushers, exhaust fan blades in pellet plants, perlite crushers, bucket teeth and lips on bucket-wheel excavators in phosphate mines, Boiler fan blades in the sugar cane industry, burden area in blast furnace bells, wear plates in blast furnace bell-less top charging systems...</p> |
| METAL TO METAL<br>FIRE CRACK | SK 742N - SK<br>SK 410 NiMo - SA<br>Soudotape 430/Record RT 152 | 43 HRc<br>40 HRc<br>39 HRc | <p>I Alloy depositing a ferritic-martensitic steel designed to enhance the resistance to thermal fatigue and intragranular corrosion by reducing the formation of M23C6 carbides at grain boundaries.</p> <p><b>APPLICATIONS:</b> Continuous casting rolls...</p>                                                                                                                                                                                                                                                                                                                                            |
|                              | SK 430C - SA                                                    | 180 HB                     | <p>I Alloy depositing a ferritic steel containing 17% chromium designed to resist corrosion at high temperatures, particularly in presence of sulphurous gas.</p> <p><b>APPLICATIONS:</b> Continuous casting rolls situated at the top of the line, valves, steam and gas turbine parts, valve seats...</p>                                                                                                                                                                                                                                                                                                  |
| NICKEL<br>BASE               | SK Tool Alloy C-G                                               | 200 HB                     | <p>I Nickel base alloy of the "HASTELLOY C" type, designed for hard surfacing parts subject to oxidation, corrosion and mechanical stresses at high temperature (1100°C).</p> <p><b>APPLICATIONS:</b> Hot shear blades, pits points, mill guides, drawing guides, hot extrusion dies, blast furnace bell seats...</p>                                                                                                                                                                                                                                                                                        |
| COBALT<br>BASE               | STELKAY 25-G                                                    | 200 HB                     | <p>I Cobalt base alloy providing excellent resistance to metal-to-metal wear, thermal shocks, oxidation in corrosive environments at high temperature.</p> <p><b>APPLICATIONS:</b> Hot working tools, forging hammers...</p>                                                                                                                                                                                                                                                                                                                                                                                 |

The list of products is not a limiting list. Please do not hesitate to contact us for other available products.

## 2 SOME OF OUR APPLICATIONS



I SK A45-O



I SK A45-O



I SK 410NiMo-SA



I SK STELKAY 21-G



I SK 258L-SA



I SK A45-O



I Soudotape 430/ Record RT 152