



Blackening

Black is beautiful... and functional! ZWEZ-Black can look back on a tradition of over 70 years under the trade mark "Negrovit" and has remained innovative until today. Deep black oxide layers, rust-preventing and dimensionally accurate.

Some regard iron oxide coatings as beautiful because they are black and dimensionally accurate. For others, it is a decorative and adequate anti-corrosive, and it improves the running-in processes for special applications involving sliding friction, e.g. for wind mills. Additionally, there are aspects of reduction in reflection and also the approval for food-industry machines. All this is provided by the black-finishing of steel, cast iron, stainless steel – created by brief dipping.

The staining of copper alloys is almost exclusively a decorative matter. Besides the commonly used black oxides, there are also grey and even brown stains. Just take a look at a jeans button to appreciate the entire range of colour options. Whereas black is a must in the optical path of binoculars or a camera.

Die-cast zinc can only be chemically blackened if the alloy contains copper. In contrast to iron and copper, the black layer here is not an oxide but a highly complex compound of the metals zinc and copper. The applications are just as exotic and limited to special fields.

Protecting and staining of ...

■ = standard □ = alternative ◆ = as required	Steel	Cast materials	Stainless steel	Copper, brass, other copper alloys	Die-cast zinc containing copper (ZAMAK)
ZWEZ-Clean Cleaning/degreasing	■	■	■	■	■
ZWEZ-Acid Pickling/derusting	◆	◆	◆	◆	◆
ZWEZ-Cond FE 33 Activating / avoiding stainings caused by transfer to next station	◆	◆	◆		
ZWEZ-Black X8	■				
ZWEZ-Black V2	□				
ZWEZ-Black SG		□			
ZWEZ-Black G9		□	□		
ZWEZ-Black RF			■		
ZWEZ-Black CU				■	
ZWEZ-Black ZN Black-finishing					■
ZWEZ-Black ARI Rinse additive	■	■	■	◆	◆
ZWEZ-Oil Emulsion oiling	□	□	□	□	□
Dewatering fluid	□	□	□	□	□