

INTRODUCING HEAT RESISTANT WEAR PLATE



When steel is exposed to heat, it loses its hardness and also its resistance to wear. For many years, Hardox has been the solution for all wear situations and has become almost synonymous with wear plate as a concept. What if we could offer you a Hardox that endures heat?

In our wide product portfolio there is Toolox – a steel that serves as a tool for molds and parts subjected to extreme stress and heat. The secret behind Toolox is a unique chemical composition that allows it to retain its properties throughout its tough life. At 500 °C, it retains about 80% of its original hardness. In addition to this, the material is “dead” – it does not hold any inner stresses and is therefore a dream come true in the workshop.

Now, we are proudly introducing Toolox 44 as heat resistant wear plate with the hardness 450 HB. It is an alternative wear solution to Hardox that is developed specifically for applications subjected to high temperatures.

APPLICATION EXAMPLES

Its unique properties makes Toolox a perfect wear plate for metallurgical industries, cement industries, in power plants and other areas where the application is exposed to both wear and heat.



Hot slag bucket, Toolox 33.



Coke oven, Toolox 44.



Rotating knives in blanks manufacturing, Toolox 44.

HIGH TEMPERATURE PROPERTIES FOR TOOLOX 44 - TYPICAL VALUES

	+20 C	+200 C	+300 C	+400 C	+500 C
Hardness [HBW]	450				
Compressive yield strength [MPa]	1250	1120	1120	1060	930
– after 170 h soaking time				1060	910
Impact toughness	30	60	80	80	

HIGH TEMPERATURE PROPERTIES FOR TOOLOX 33 - TYPICAL VALUES

	+20 C	+200 C	+300 C	+400 C	+500 C
Hardness [HBW]	300				
Compressive yield strength [MPa]	800	750	700	590	560
Impact toughness	100	170	180	180	

AVAILABILITY

toolox is available from stock in thicknesses from 5 mm to 160 mm. For technical information regarding welding, cutting, drilling and supply please contact your local Titus Steel representative.

USA
1575, Highway 411 N.
Suite 401
Cartersville, GA 30121
P: 888-564-7904 F: 905-564-2450



Website: www.titussteel.com Email: sales@titussteel.com

CANADA
6767 Invader Crescent
Mississauga, ON L5T 2B7
P: 888-564-7904 F: 905-564-2450