



INTERNATIONAL TOOL STEEL

The World's Finest Tool Steel

ITS "NIOLOX" SPECIAL WEAR STAINLESS STEEL

PRODUCT INFORMATION

ITS "Nilox" Special Wear Stainless Steel will greatly improve wear resistance for many knife applications such as Food Cutting Knives, Hunting Knives, Hobby Knives etc.

Nilox tool steel for oil-quenching with good toughness and edge-holding ability at moderate corrosion resistance. Besides its main application for cutter knives in the food processing industry, this steel is used for all industrial knife applications where maintenance of the cutting edges and moderate corrosion resistance is required. At increased requirements to corrosion resistance, especially in salt or acid containing medias, it is recommended not to use tempering temperatures above 420 C. Carbide precipitations on the grain boundaries may cause otherwise pitting corrosion.

Delivery Hardness

Max 255 HB

Soft Annealing

840-860 C, Furnace cooling < 550 C then air cooling

Hardening

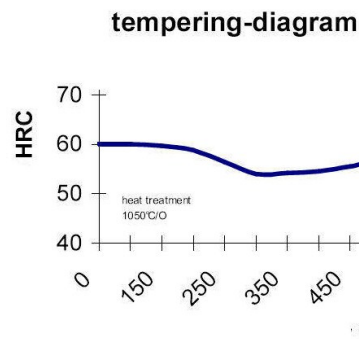
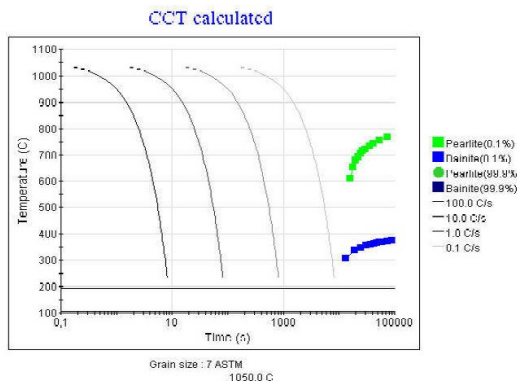
1040-1060 C, Oil quenching or salt bath 180-220 C

Tempering

260-300 C, preferred tempering range for 54-56 HRC

480-500 C, at increased toughness requirements

Chemical Analysis	
Carbon	0.8
Phosphorus	—
Manganese	—
Sulfur	—
Silicon	—
Chromium	12.7
Vanadium	0.9
Tungsten	—
Molybdenum	1.1
Cobalt	—
Nb	0.7



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