

# UltraOx<sup>®</sup> Hydraulic Cylinder Bar



Advanced Heat Treat Corp. (AHT) is a leading supplier of nitrocarburized bars with custom sizes up to 15' in length. Each hydraulic cylinder bar is treated with our trademarked process, UltraOx, for superior wear and corrosion resistance.

## What is UltraOx<sup>®</sup>?

UltraOx combines the controllable ferritic nitrocarburizing (FNC) process with post-oxidizing and a proprietary sealant. Chemicals are diffused into the surface to generate increased hardness, wear resistance and improved corrosion resistance; UltraOx is not a coating or painting, so it cannot flake or chip off.

UltraOx has provided numerous benefits to a variety of industries, including automotive, construction, aerospace and defense.

## Benefits of UltraOx<sup>®</sup> Hydraulic Cylinder Bar

- Environmentally-friendly alternative to chromium plating, nickel plating and salt bath nitriding
- Thick compound zone (white layer) - up to 0.0015" for increased wear & corrosion resistance
- Easily surpasses salt spray test of 240 hours per ASTM B117
- Minimum surface hardness of 60+ HRC (or equivalent)
- Has an aesthetic, smooth black finish
- UltraOx is NOT A COATING, so there is no surface pitting, flaking or hydrogen embrittlement

## In-Stock Inventory

AHT has UltraOx hydraulic cylinder bar on-hand to provide our customers with the fastest turnaround time possible. If your preferred size and material is not listed below, please let us know and we will do our best to accommodate.

<b>Material Grades</b>	10V45 & 1045 <i>(other material grades available by request)</i>
<b>Tensile Strength</b>	75 KSI & 90 KSI
<b>Surface Finish</b>	0.20 to 0.40 Micrometers RA
<b>Diameter Ranges</b>	0.625" to 2.75" OD
<b>Length</b>	12' in-stock (144" OAL) <i>(custom sizes up to 15' OAL available, by request)</i>

UltraOx<sup>®</sup> Hydraulic Cylinder Bar is offered in Waterloo, Iowa.  
Visit [www.ahtcorp.com](http://www.ahtcorp.com) or contact your AHT representative to learn more.