



# Hot Oil Quench

## What is Martempering?

Martempering, also known as marquenching, is a heat treatment term used to describe a delayed quench from the austenitizing temperature. The point is to delay the cooling from where the transformation of the hardening constituent begins to form. By holding it there for a period of time it allows for temperature uniformity within the part being hardened. This process combines the hardening properties a traditional quench would produce while reducing distortion, the likelihood of cracking, and internal stresses associated with part geometry.

## Applications

DISTORTION CONTROL ● TIGHT TOLERANCE COMPONENTS  
GEARS ● TOOLING ● DIE WORK

Martempering can be performed on any steel that is hardened via conventional quenching methods. Hardness & tensile strength can also be controlled by tempering after marquenching to meet your requirements.

Ask your Braddock Metallurgical facility about our capabilities with Hot Oil Quenching. We're committed to offering the same level of service, quality, and expertise our customers have become accustomed to for over 60 years.

## Benefits

- Reduced distortion
- Reduced likelihood of cracking
- Reduced internal stresses

## Currently available at

Daytona Beach Facility  
400 Fentress Blvd  
Daytona Beach, FL 32114  
386-267-0955

Jacksonville Facility  
14600 Duval Place West  
Jacksonville, FL 32218  
904-741-4777

Atlanta Facility  
1050 Lagrange Blvd SW  
Atlanta, GA 30336  
404-355-6952