

# SALT BATH NITRIDING (SBN)



## SALT BATH NITRIDING (SBN) AND QPQ OVERVIEW

SBN/QPQ is a diffusion process that provides distortion-free dimensional stability while hardening the surface of the part (up to three times the strength of carbon steel) thereby producing superior wear resistance, improved fatigue strength, and surface lubricity. Unlike a plating or a coating, SBN/QPQSM adds virtually no dimensions to the part and there is nothing to chip or flake off.

The term "QPQ," or Quench-Polish-Quench is based on a sequence of process events that occur directly following the nitrocarburizing cycle that included a Quench (the nitrocarburizing bath is typically 1075 °F) followed by a Polish, then followed by an additional Quench step that produces a layer of iron nitride which adds an element of corrosion protection. The SBN/QPQ process produces a cosmetically appealing, matte black finish.

## SERVICES/ CAPABILITIES

- Bath Dimensions (60" Deep x 42" Diameter round Inconel pot)
- Can process up to 56" in length and 40" diameter part in a single dip. (offer a double dip if part exceeds in length up 110")
- Two 2-ton hoist to eliminate hoist hold ups
- Full Quench Polish Quench (QPQ) process or Quench Polish (QP) process.
- Process to customer specification depending on time and polishing method or otherwise requested.
- Oiling of parts according to specification or upon request.
- Glass bead per specification
- Standard lead time is less than a week but, capable of quicker lead times to meet on time delivery.

## INDUSTRIES SERVICED

- Oil and Gas
- Firearms
- Automotive



## ABOUT US

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Conveniently located in Northwest Houston off of FM 529 just a mile away US 290, Nitretex specializes in Ferritic Nitrocarburizing or Salt Bath Nitriding, which is commonly referred to as the “QPQ (Quench Polish Quench)” process. The process treats ferrous metals and alloys in many different industries throughout the world.

The company offers quick turnarounds, competitive pricing, repetitive quality results, exceptional customer service and flexible hours to meet customer expectations.

Nitretex is the newest competitor in the Greater Houston area and anticipates many great years of service to our customers.

## SPECIFICATION

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Nitretex complies with the industry standard specification SAE AMS-2753D.

## CERTIFICATIONS

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Nitretex is ISO and OSHA compliant.

**Hours of Operation:**

7 AM – 12 PM / 1 PM – 5 PM

**Main Number:**

281-721-2147

**After Hours Phone:**

979-277-5895

**Plant Address:**

12227L FM 529  
Houston, TX 77041

**[www.nitretex.com](http://www.nitretex.com)**

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