



WHITEPAPER

# SIDENOR AND THE OIL & GAS MARKET



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The oil and gas sector **is one of the most demanding markets**, as each of its components has a high responsibility and must work efficiently under very severe temperature and pressure conditions. **Reference standards in this sector are issued by** the American Petroleum Institute. They are the well-known **API standards**.

According to the API standards **on special steel, extreme rigor** is required in the heat treatment – hardening and tempering –, in addition to each type of steel's own mechanical requirements. The objective is to ensure great uniformity, so that the results of the tests performed on the samples may be fully representative of the batch they were extracted from, thus **providing full warranty / confidence regarding the entire batch**.

**The requirements** regarding heat treatment **are included in Annex M to the API 6A standard**. According to the specific requirements in Annex M, once the furnace has reached its set-point temperature, the temperature at any point in the working zone shall not vary by more than:

- 14 °C from the furnace set-point temperature when austenitizing
- 8 °C from the furnace set-point temperature when tempering. The most critical requirement for the most critical process!

**SIDENOR is a reference supplier in the oil and gas market and has reviewed and adjusted its hardening and tempering furnaces** in order to comply with the requirements from Annex M.

As a result of this work and after the audits performed by external certifying companies...

SIDENOR now has accredited furnaces that can provide steel for the oil and gas market in its 4 production facilities: Basauri, Azkoitia, Reinosa and Vitoria.

