

# SIQUAL<sup>™</sup> 7386

## CHROMIUM-MOLYBDENUM ALLOY STEEL

**SIQUAL 7386** is a chromium-molybdenum alloy steel primarily intended for welded boilers and pressure vessels designed for elevated temperature service.

### STANDARDS

Steel grade SA 387 GR 9 CL 2 is produced in accordance with:

- ASME SA 387/SA 387M BPVC.II.A-2019: Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum
- ASTM A 387/A387M: 2011/2017: Standard Specification for Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum

### CHEMICAL COMPOSITION

|                                      | C    | Si | Mn   | P     | S     | Al tot. | Cr | Cu   | Mo   | Nb   | Ni   | Ti   | V    |
|--------------------------------------|------|----|------|-------|-------|---------|----|------|------|------|------|------|------|
| ASTM A /ASME SA 387 GR 9 and A/SA 20 | -    | -  | 0.30 | -     | -     | 0.020   | 8  | -    | 0.90 | -    | -    | -    | -    |
|                                      | 0.15 | 1  | 0.60 | 0.025 | 0.025 | -       | 10 | 0.40 | 1.10 | 0.02 | 0.40 | 0.03 | 0.04 |

### MECHANICAL PROPERTIES

| Delivery condition         | Tensile properties                         |                      |                    |
|----------------------------|--------------------------------------------|----------------------|--------------------|
|                            | R <sub>eL</sub> (R <sub>p0.2</sub> ) [MPa] | R <sub>m</sub> [MPa] | A <sub>5</sub> [%] |
| NT (normalized + tempered) | min. 310                                   | 515–690              | min. 18            |

### DIMENSIONS

|                | Hot-rolled quarto plates |
|----------------|--------------------------|
| Thickness [mm] | 8–*                      |
| Width [mm]     | 1000–2500                |
| Length [mm]    | up to 12000              |

\*Max thickness shall be discussed at the time of inquiry.

\*Max thickness for primed quarto plates is 2000 mm.

## TOLERANCES ON DIMENSIONS

- EN 10029
- ASTM A/ASME SA 20

## SURFACE CONDITION

- EN 10163-2
- ASTM A/ASME SA 20

## DELIVERY CONDITION

### Hot-rolled quarto plates

normalized + tempered + shot-blasted

normalized + tempered + shot-blasted + primed

## INSPECTION DOCUMENTS

The type of document shall be agreed upon at the time of enquiry and order. A test certificate according to EN 10204/3.1 is issued mandatorily.

The information and data in this product data sheet are intended for informative purpose only and may be revised at any time without notice. Presented typical properties of the materials are described only to help readers make their own evaluations and decisions. They are not guaranteed.