

# Manaqurite® 9000B



**MANOIR**  
A PARALLOY GROUP COMPANY

## CHEMICAL COMPOSITION

---

| Element | Minimum | Maximum |
|---------|---------|---------|
| C       | 0.14    | 0.18    |
| Mn      | -       | 1.50    |
| Si      | 1.0     | 1.50    |
| Ni      | 34.0    | 37.0    |
| Cr      | 25.0    | 27.0    |
| Nb      | 0.80    | 1.20    |

## MECHANICAL PROPERTIES

---

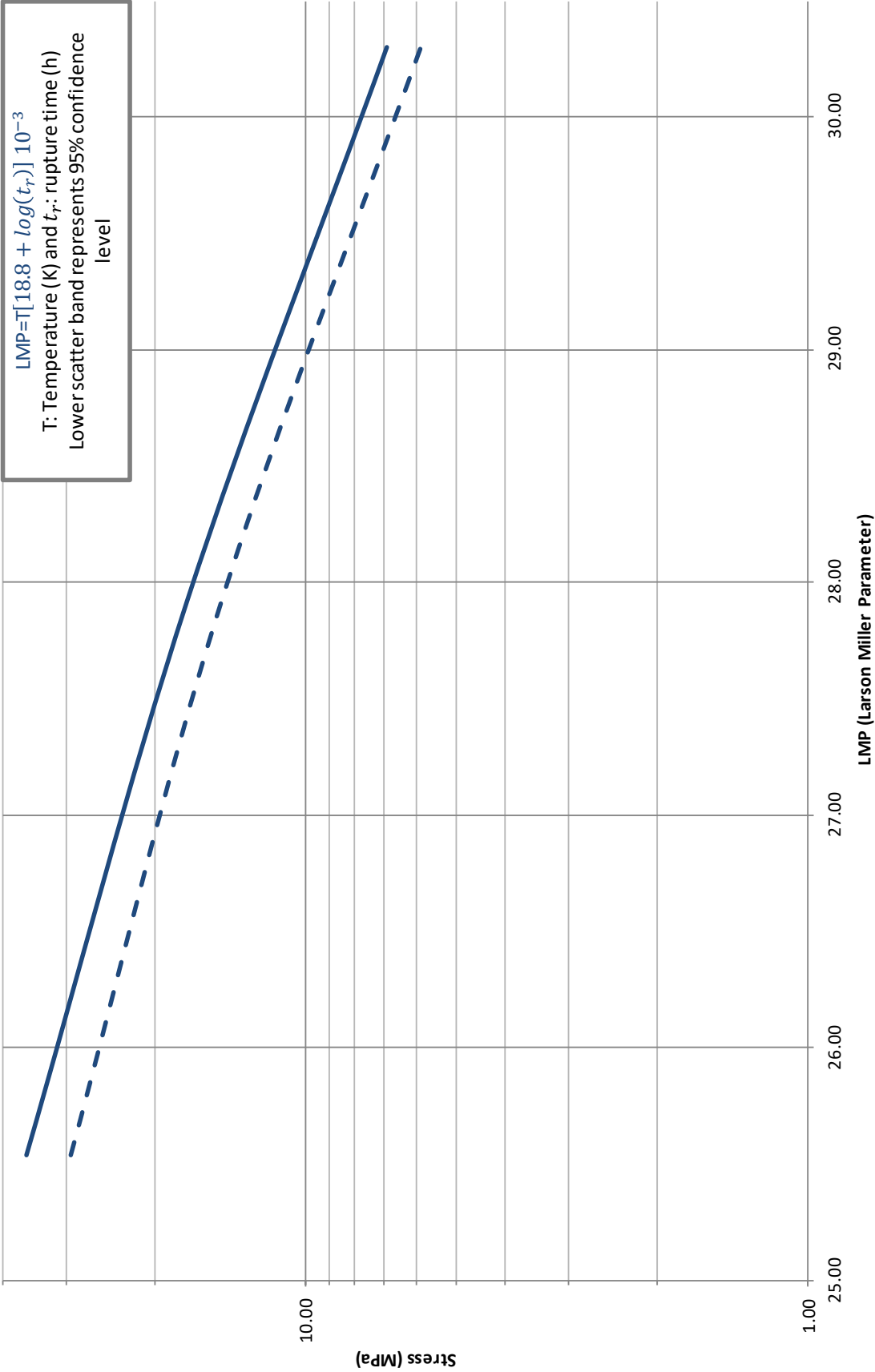
### 1. At room temperature – as cast tubes (minimum values)

Ultimate tensile strength: 448 MPa – 65.000 psi  
Yield strength: 186 MPa – 27.000 psi  
Elongation (on 4d): 25% for tubes / 20% for fittings

### 2. At high temperature – short time tests – as cast material

| 750°C (1 385°F) |      |        | 830°C (1 530°F) |      |        | 900°C (1 650°F) |      |        |
|-----------------|------|--------|-----------------|------|--------|-----------------|------|--------|
| U.T.S.          | Y.S. | E (4d) | U.T.S.          | Y.S. | E (4d) | U.T.S.          | Y.S. | E (4d) |
| MPa             | MPa  | %      | MPa             | MPa  | %      | MPa             | MPa  | %      |
| 280             | 115  | 30     | 200             | 110  | 35     | 120             | 95   | 40     |

3. Creep rupture data (95% confidence level)



---

## MANOIR FRANCE

**Future is our raw material.**

As a metal processing specialist, Manoir Industries develops alloys and operates processes for the manufacture of high-performance components. Known and recognised for several decades, its know-how is complemented by its expertise in casting, forging, boilermaking, welding and assembly. Manoir's solid technical expertise continues to drive its sustainable leading position, offering innovative services to its customers worldwide as a true partner.