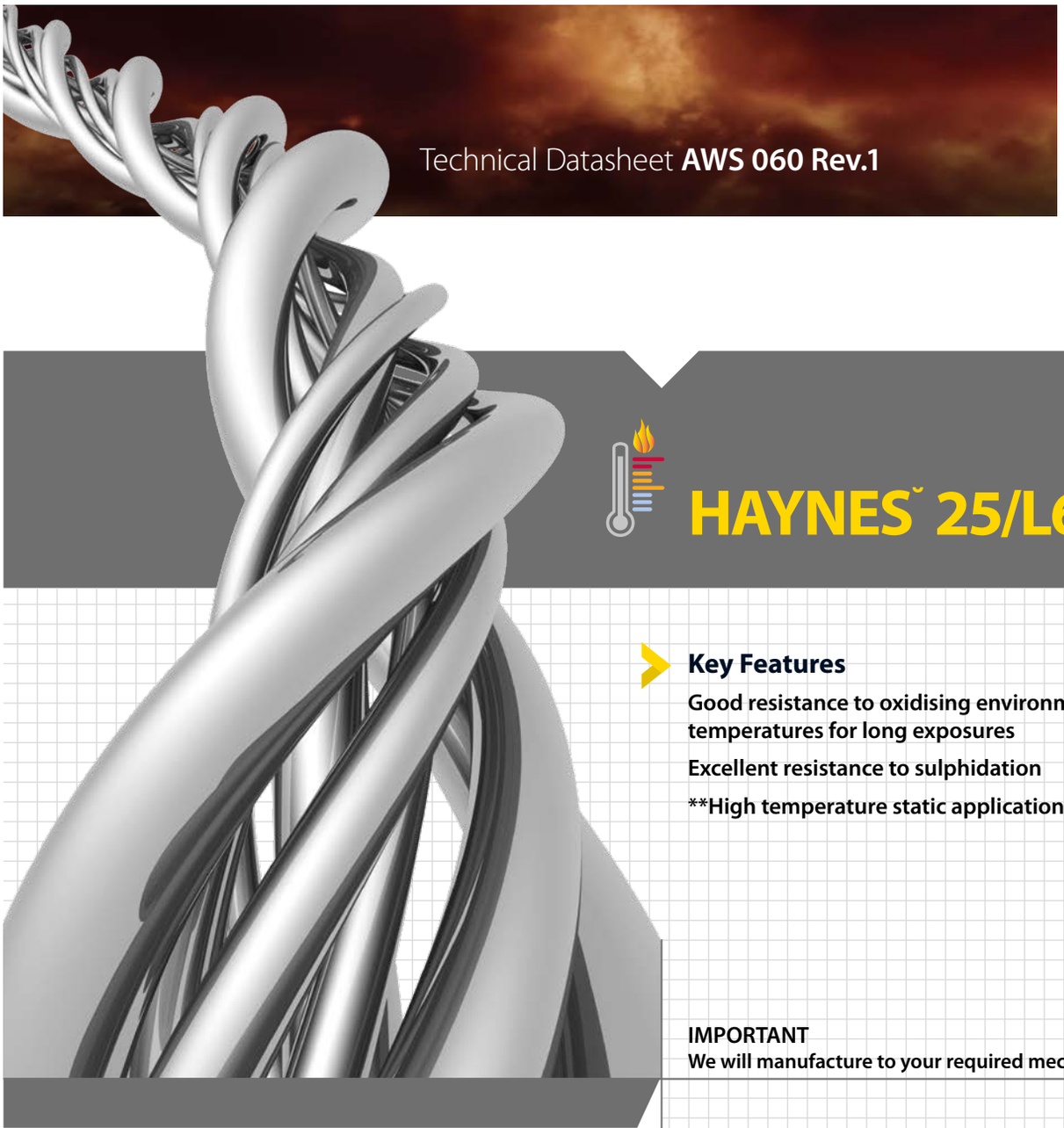

Technical Datasheet **AWS 060 Rev.1**

alloy wire international

# HAYNES˜ 25/L605

## Key Features

**Good resistance to oxidising environments at high temperatures for long exposures**

**Excellent resistance to sulphidation**

****High temperature static applications**

**IMPORTANT**
**We will manufacture to your required mechanical properties.**

## key advantages to you, *our customer*

RANGE
0.025mm to 21mm
(.001" to .827")

3m 3t
Order 3m to 3t
(10 ft to 6000 Lbs)

DELIVERY 3 WEEKS
Delivery:
within 3 weeks

Wire to your spec

E.M.S available

HOW CAN I HELP?
Technical support

## HAYNES˜ 25/L605 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

## Packaging

- Coils
- Spools
- Bars or lengths

˜Trade name of Haynes International.

Manufacturing quality, delivering reliability | **alloywire.com**

Technical Datasheet **AWS 060 Rev.1**

# HAYNES® 25/L605

alloy wire international

| Chemical Composition | | |
|---|---|---|
| Element | Min % | Max % |
| C | 0.05 | 0.15 |
| Mn | 1.00 | 2.00 |
| Si | - | 0.40 |
| P | - | 0.040 |
| S | - | 0.030 |
| Cr | 19.00 | 21.00 |
| Ni | 9.00 | 11.00 |
| W | 14.00 | 16.00 |
| Fe | - | 3.00 |
| Co | BAL | |

**Specifications**

AMS 5796
AMS 5759
ASTM F90
BS HR 40
ISO 15156-3
(NACE MR 0175)

**Designations**

W.Nr. 2.4964
UNS R30605
AWS 060

**Key Features**

Good resistance to oxidising environments at high temperatures for long exposures

Excellent resistance to sulphidation

**High temperature static applications

**Typical Applications**

Parts for gas turbine engines and bearings

| | | |
|---|---|---|
| **Density** | 9.13 g/cm$^3$ | 0.330 lb/in$^3$ |
| **Melting Point** | 1410°C | 2570 °F |
| **Coefficient of Expansion** | 12.3 µm/m °C (20 – 100°C) | 6.8 x 10$^{-6}$ in/in °F (70 – 212°F) |
| **Modulus of Rigidity** | 98 kN/mm$^2$ | 14214 ksi |
| **Modulus of Elasticity** | 225 kN/mm$^2$ | 32634 ksi |

| Heat Treatment of Finished Parts | | | | | |
|---|---|---|---|---|---|
| **Condition as supplied by Alloy Wire** | **Type** | **Temperature** | | **Time (Hr)** | **Cooling** |
| | | **°C** | **°F** | | |
| Annealed or Spring Temper | Stress Relieve | 400 – 450 | 750 – 840 | 2 | Air |

| Properties | | | | |
|---|---|---|---|---|
| **Condition** | **Approx. tensile strength** | | **Approx. operating temperature depending on load** and environment** | |
| | **N/mm$^2$** | **ksi** | **°C** | **°F** |
| Annealed | 900 – 1500 | 131 – 218 | -200 to +900 | -330 to +1650 |
| Spring Temper | 1400 – 1800 | 203 – 261 | -200 to +900 | -330 to +1650 |

**The above tensile strength ranges are typical. If you require different please ask.**

****Static applications** = *still/fixed/motionless/rigid*

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