

General Specifications

- Aeronautic quality precision Cr-Moly tube manufactured by par Osborn Metals.
- Seamless cold drawn tubes
- OASIS Identification : [6127818124](#)
- [AS 9100 / EN9100 / JISQ 9100](#)
N° 00017787
- Approved by Airbus, BAE Systems



Applications

- These tubes are adapted to aeronautic applications requesting high performances and quality, good bending capability and easy welding.
- Examples of use cases :
 - Struts
 - Structural tubes
 - Light aircraft

Material Spec & Norms

- 25CD4S Aerospace quality
- Cleanliness [Class2/AIR0819](#) & [BS S100](#)
- Chemical composition [WL W.-Nr. 1.7214](#)
- Manufactured acc. [ASNA 6080](#) - [AIR 9160](#) – British Standard Aerospace T60 – [Werkstoff WL 1.7214-5/6/9](#)

Mechanical Characteristics

- Annealed : [Hardness](#) ≤ 95HRB [Rm](#) ≤ 740MPa
- Normalized: 190HB ≤ [Hardness](#) ≤ 250HB
[660MPa](#) ≤ [Rm](#) ≤ [860MPa](#) [Rp0,2%](#) ≥ 490MPa (520MPa for WL) [A%](#) ≥ 15%
- TR880 : 267HV ≤ [Hardness](#) ≤ 324HV
[880MPa](#) ≤ [Rm](#) ≤ [1080MPa](#) [Rp0,2%](#) ≥ 690MPa [A%](#) ≥ 10%
- TR1080 : [Hardness](#) ≥ 320HV [1080MPa](#) ≤ [Rm](#) ≤ [1250MPa](#)
[Rp0,2%](#) ≥ 885MPa [A%](#) ≥ 7%
- TR1150 : 350HV ≤ [Hardness](#) ≤ 425HV
[1150MPa](#) ≤ [Rm](#) ≤ [1350MPa](#) [Rp0,2%](#) ≥ 1050MPa [A%](#) ≥ 6%

	C	Si	Mn	S	P	Cr	Ni	Mo
Min	0,22	0,15	0,50	≤ 0,015	≤ 0,020	0,90	≤ 0,30	0,15
Max	0,29	0,25	0,80			1,20		0,25

Specificities

- 100 % Defect inspection by Eddy current testing
- Tubes are marked on the O/D as
[25CD4S-30x2-PV A22/007](#)
- Tubes are delivered descaled, phosphatized and oiled
- Guaranteed full traceability
- Approval Airbus [ARP-ID 161592](#)
- BAE : autorization N° [ACO/O/LT/JJH/5940](#)

Options

- Linished and oiled finish