

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 $\leq 95\text{HRB}$ $R_m \leq 740\text{MPa}$
- Normalized: $190\text{HB} \leq \text{Hardness} \leq 250\text{HB}$
 $660\text{MPa} \leq R_m \leq 860\text{MPa}$ $R_{p0,2} \geq 490\text{MPa}$ (520MPa for WL) $A\% \geq 15\%$
- TR880 : $267\text{HV} \leq \text{Hardness} \leq 324\text{HV}$
 $880\text{MPa} \leq R_m \leq 1080\text{MPa}$ $R_{p0,2} \geq 690\text{MPa}$
 $A\% \geq 10\%$
- TR1080 : Hardness $\geq 320\text{HV}$
 $1080\text{MPa} \leq R_m \leq 1250\text{MPa}$ $R_{p0,2} \geq 885\text{MPa}$
 $A\% \geq 7\%$
- TR1150 : $350\text{HV} \leq \text{Hardness} \leq 425\text{HV}$
 $1150\text{MPa} \leq R_m \leq 1350\text{MPa}$ $R_{p0,2} \geq 1050\text{MPa}$
 $A\% \geq 6\%$

	C	Si	Mn	S	P	Cr	Ni	Mo
Min	0,22	0,15	0,50	$\leq 0,015$	$\leq 0,020$	0,90	$\leq 0,30$	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 : authorization N° ACO/O/LT/JJH/5940

Options

- Linished and oiled finish