

## General Specifications

- Aeronautic quality precision Cr-Moly tube manufactured by par Osborn Metals.
- Seamless cold drawn and stress relieved tube
- Good bending performance, good weld ability and very good toughness and consistency
- More than meets:  
EN10305-1 / 25CrMo4+SR – 1.7218+SR
- Can substitute to  
4130 Cond N (AMS6360, Mil T 6736, ASTM A519)

## Material Spec & Norms

- 25CD4S Aerospace quality
- Cleanliness Class2/AIR0819 & BS S100
- Chemical composition WL W.-Nr. 1.7214
- Tolerances acc. to EN10305-1 (or better on demand)

## Applications

- These tubes are adapted to the biking industry and more generally to the soft mobility solutions that need lightweight, strength, good bending and easy welding.
- Examples of use cases :
  - Bike frames, Scooter frames
  - Any type of chassis
  - Luggage rack

## Mechanical Characteristics

- Tensile strength:  $R_m \geq 750 \text{ MPa}$
- Yield strength:  $R_{p0,2\%} \geq 650 \text{ MPa}$
- Elongation:  $A\% \geq 15 \%$
- Usual bending capability:  $R_{\text{mini}} = 3 * \varnothing e^*$
- \* Can vary depending on diameter & thickness

	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

- Tubes are finished and oiled

## Options

- The GTV750 is delivered cold drawn and stress relieved (+SR). On demand Osborn Metals can manufacture any dimensions in 25CrMo4 according to different standards like: +C,+LC, +N, +A, +QT
- 100 % Defect inspection by Eddy current testing
- Tubes marking