

General Specifications

- Very high-performance aeronautic quality Cr-Moly-Vanadium tubes manufactured by Osborn Metals.
- Seamless cold drawn, quenched and tempered tube
- Good bending performance, good weld ability
- Excellent mechanical characteristics
- Thanks to the high level of cleanliness, the material is very homogenous, very strength and fatigue resistant.

Material Spec & Norms

- 15CDV6 Aerospace quality
- Cleanliness Class 2 / AIR 0819
- Chemical composition WL W.-Nr. 1.7734
- 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 ultra-lightweight and extra-strength tubes
- Examples of use cases :
 - Light bike frames,
 - Motorbike frame
 - Super-light chassis

Mechanical Characteristics

- Tensile strength: $R_m \geq 1200 \text{ MPa}$
- Yield strength: $R_{p0,2\%} \geq 1000 \text{ MPa}$
- Elongation: $A\% \geq 10 \%$
- Usual bending capability: $R_{\text{mini}} = 5 * \varnothing^*$
- * Can vary depending on diameter & thickness

	C	Si	Mn	S	P	Cr	Mo	V
Min	0,12	$\leq 0,20$	0,80	$\leq 0,015$	$\leq 0,020$	1,25	0,80	0,20
Max	0,18		1,10			1,50	1,00	0,30

Specificities

- Tubes are finished and oiled

Options

- The GTV1200 is delivered quenched and tempered according to 1,7734,6 (T1200>T1080). On demand Osborn Metals can manufacture tubes in 15CDV6 according to other standards like: 1,7734,3 (+A), 1,7734,4 (T700), 1,7734,5 (T980 / GT1000)
- 100 % Defect inspection by Eddy current testing
- Tubes marking