



**TYPE APPROVAL CERTIFICATE**  
No. MIL194122CS

**This is to certify** that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	<b>Metallic pipes</b>
<i>Type</i>	<b>Tungum</b>
<i>Applicant</i>	<b>T2 ALLOYS LIMITED 200A, Ashchurch Business Centre, Alexandra Way Gloucestershire GL20 8TD Tewkesbury UNITED KINGDOM</b>
<i>Manufacturer</i>	<b>T2 ALLOYS LIMITED</b>
<i>Place of manufacture</i>	<b>200A, Ashchurch Business Centre, Alexandra Way Gloucestershire GL20 8TD Tewkesbury UNITED KINGDOM</b>
<i>Reference standards</i>	<b>Rules for the Classification of Naval Ships - RINAMIL</b>

*Issued in* **Genoa** on **June 17, 2022**. *This Certificate is valid until* **May 29, 2027**

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**RINA Services S.p.A.**  
**Marco Dardano**

This certificate consists of this page and 1 enclosure

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Enclosure - Page 1 of 1

**Tungum**

### ***Reference documents***

Technical datasheet filed with document PPVT-38484 and dispatched with letter PPVT/2022/394/CRLVA dated 18/5/2022

Technical datasheet filed with document PPVT-38808 and dispatched with letter PPVT/2022/484/CRLVA dated 17/6/2022

Test booklet filed with document PPVT-38485 and dispatched with letter PPVT/2022/394/CRLVA dated 18/5/2022

T2 Alloys technical datasheet TCL100

### ***Technical characteristics***

copper based alloy supplied in seamless round tube straight lengths from 3mm to 76mm and 1/8" to 3" in a range of wall thickness options.

Size ranges:

METRIC : Outside diameter: 3.0–76.1 mm, Wall thickness: 0.5–7.0 mm – see dwg PPVT-38808

IMPERIAL: Outside diameter: 1/8"-3", Wall thickness: 0.020"-0.188" - see dwg PPVT-38808

Tungum tubing material is manufactured in accordance with BS EN 12449 CW700R cond R430 and ASTM B706 cond TF00

### ***Fields of application***

Seamless tubes used on Instrumentation lines, Hydraulic systems, Pneumatic systems, Oxygen systems, Diesel / fuel lines, Sea Water systems, Pressure sensing systems, Temperature Sensing

Element Loops, Potable water systems, Grey & black water systems, Chemical injection systems, Conduit tubing - emergency shutdown systems, Brake pipes.

Temperature Range: (minus)-196 °C to (plus)+250 °C

### ***Acceptance conditions***

Applications involving the storage and transport of liquefied gases are not included in this certification.

Installation is to be done in compliance with manufacturer's instructions and Pt.C, Ch1, Sec.10 of RINA Rules for the classification of Naval Ships.

**Genoa 17/06/2022**