**Typical Applications**
- Roll cages
- Space Frames
- Aerospace Impact Protection
- Roll Bars
- Pilot seats/ Crew seats

**Product Description**
T45 is a very unique seamless carbon based steel tube that has been used in many applications in different industries. It is widely used in the aerospace sector in equipment such as pilot's seats and crew's seats due to the materials ability to withstand high G forces without snapping or splitting.

**Key features:**
- High strength
- Ease of forming
- Easy welding
- No requirement for pre or post heat treatments
- Can improve structural strengths without increasing the weight drastically

**Corrosion Resistance**
Good

**Availability**
Tube

**Chemical Composition (weight %)**

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<th>C</th>
<th>Cr</th>
<th>Mn</th>
<th>Mo</th>
<th>Ni</th>
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**Mechanical Properties**
- Ultimate Tensile Strength: 700-900 MPa
- 0.2% Proof stress: 620 MPa
- Hardness (Brinell): 201 - 262 HB

**Physical Properties**
- Hardening: 870 - 910 degrees (quench in oil or water)
- Tempering: 675 degrees (Cool in suitable manner)

**Technical Assistance**
Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.