

# MPCV ESM PROPELLANT TANK

## MPCV ESM Propellant Tank

**Net Volume Range:**

2100 Litres

**Propellants**

MON respectively MMH

**Geometrical Shape**

Spherical with a cylindrical intersection

**Maximum Expected Operating Pressure (MEOP)**

25 bar

**Proof Pressure (1.25 x MEOP)**

31.25 bar

**Burst Pressure (1.5 x MEOP)**

37.5 bar

**Interface Fixation**

Upper Ring: 24 Suspension Tabs  
Lower Ring: 12 Suspension Tabs

**Materials**

- Pressure Vessel
- Suspension/Ports
- PMD
- Screens
- Sloshing Device

Ti6Al4V STA (3.7164.7)

Ti6Al4V (3.7164.1)

3.7034 / 3.7164.1

304L (1.4306)

3.7034 / 3.7164.1

**Tank Mass**

~110 kg

**Project Involvement**

MPCV

