

THE NEXT-GENERATION
LPG CYLINDER IS HERE...



PRESENTING KAVACH
HIGH TECH POLYMER COMPOSITE CYLINDERS.



The Supreme Industries Ltd.

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Supreme Industries: A pioneering presence in the plastics industry. For the past 4 decades, Supreme Industries Ltd. has held the pride of place as one of the largest processors of plastic in India. The journey thus far has seen Supreme unveil many an innovation in the form of plastic products designed for consumer and industrial applications alike.

With Composite LPG Cylinder 'KAVACH', Supreme is introducing yet another product that is the one-of-its-kind in India. The Supreme Type IV Composite LPG Cylinder is a world-class product that will be manufactured at Supreme's state-of-the-art production facility located at Halol, Gujarat. The Halol facility employs a high degree of automation, with hi-tech robotic units. Automation ensures that each Composite LPG Cylinder is produced with precision and conforms to a consistently high quality standard. Automation also ensures a higher throughput, with the facility producing over 500,000 Composite LPG Cylinders per annum.

Highest quality raw material from global suppliers is used in the manufacture of Supreme type IV Composite LPG Cylinder. Thorough quality checks are implemented to ensure that each manufactured cylinder is rigorously tested to the most demanding quality standards. Supreme Kavach is certified by TUV for ISO 111193, EN 12245 and EN 14427. We also have certifications from KEBS, ESMA, KGS. Our plant is certified for ISO 9001- 2008, 14001: 2004+COR. 1:2009. Supreme holds human safety above all and has OHSAS 18001 : 2007 certifications. All the certifications are in force. The Composite LPG Cylinder marks another step in Supreme's pioneering journey in the Indian market.



CERTIFIED AS PER ISO 11119 - 3 and EN 12245

FEATURES OF LPG COMPOSITE CYLINDERS

- Highly safe. The composite cylinder is Explosion proof
- Less than half the weight of conventional Steel cylinders
- Aesthetically good design
- Rust and moisture proof. Doesn't stain the tiles
- Wall translucency provides visible gas level.
- UV resistant outer casing
- Facility to have customer logo embossed/ printed on outer casing
- Possibility of incorporating RFID
- Easily Stackable



CONSTRUCTION

The inner layer consists of a blow molded HDPE liner which serves as the seamless gas barrier layer. An injection moulded HDPE boss with a brass insert is welded on the liner for mounting the valve onto the cylinder. The insert can be made suitable to house safety valve having either tapered or parallel threads. The liner is then reinforced by winding glass fibers impregnated with epoxy resin in specific configurations, which is cured after winding, to produce the solid finished part. This layer has an extremely strong strength to weight ratio and takes up the forces of the internal pressure.

Upon specific request from customer, the liner after being cured is spray painted with UV paint and further cured in the oven. The liner is then housed in a distinctively designed, injection molded outer casing, which protects the pressure vessel and valve. The ergonomic handle allows easy lifting and are built for stacking.



PRODUCT SPECIFICATION

Type	5 kg	7.5 kg	8.2 kg	10 kg	10.7 Kg	12 kg	14.2 kg	15 kg	20 kg
Propane Capacity	5 kg	7.5 kg	8.2 kg	10 kg	10.7 kg	12 kg	14.2 kg	15 kg	20 kg
Butane capacity	6 kg	9 kg	10 kg	12 kg	12.8 kg	14.4 kg	16.5 kg	18.0 kg	24.0 kg
Water capacity	12.5 L	18.2 L	20.6 L	24.5 L	26.2 L	30 L	33.3 L	36.5 L	47.5 L
Empty Cylinder Weight	3020 g	4860 g	5140 g	5640 g	5825 g	6300 g	7310 g	7940 g	9100 g
(Excluding valve)									
Overall length	378 mm	471 mm	511 mm	569 mm	595 mm	655 mm	648 mm	718 mm	870 mm
Overall diameter	305 mm	305 mm	305 mm	305 mm	305 mm	305 mm	330 mm	330 mm	330 mm
Service pressure	20 bar	20 bar	20 bar	20 bar	20 bar	20 bar	20 bar	20 bar	20 bar
Test pressure	30 bar	30 bar	30 bar	30 bar	30 bar	30 bar	30 bar	30 bar	30 bar
Burst Pressure	>100 bar								

PRODUCT APPLICATIONS



Outdoor Cooking



Gas Cutting



Forklift Truck



Domestic Cooking



Gas Burners / Lanterns