



# Installation Guide & Service Manual

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## **ITEMS INCLUDED IN YOUR PUMP KIT**

Qty.	Item Description
1	Pump Lid
1	T – Handle
1	Pump Housing inc. Piston and Shaft
1	Armoured Hosing
1	Right Angled Chuck
1	Straight Chuck
1	Calibration Collar
16	Green Marker Rings
1	Standard Core Removal Tool
1	Manual

## **ADDITIONAL ITEMS THAT CAN BE PURCHASED FROM OUR TEAM**

- 20 litre pails of Heavy Duty Tyre Sealant
- 20 litre pails of Armor-Seal Tyre Sealant
- 20 litre pails of Hydro-Seal Tyre Sealant (for water ballasted tyres)
- 950ml (32 Units) Bottles of Heavy Duty Tyre Sealant
- Installation Pump Kits
- Additional green marker rings or caps (supplied in bags of 50)
- Large Bore Valve Tools
- Pail Dollies
- Universal Valve Core Removers (Dual End)
- Pneumatic Filling System
- Additional Straight Valve or Right Angled Chucks.

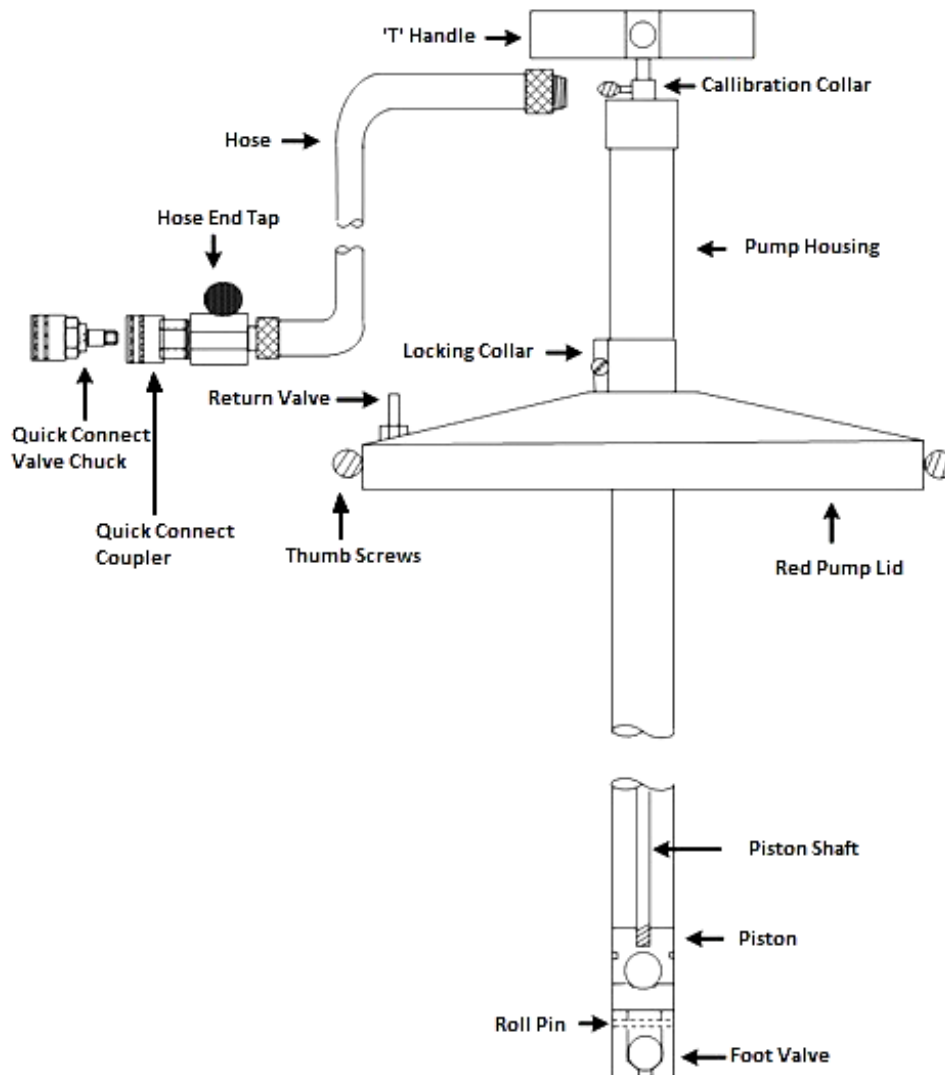
Should you have any questions or queries regarding the above items, please do not hesitate to contact us.

**An installation video is available to view on our website [www.air-sealproducts.com](http://www.air-sealproducts.com)**

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## PUMP ASSEMBLY INSTRUCTIONS



### HOW TO ASSEMBLE THE PUMP

Remove contents from the box. The four main components are the pump, red lid, hose with connectors and a bag containing the handle and locking collar.

1. Drop the calibration collar onto the pump shaft (it may be necessary to loosen the thumbscrew) and screw the handle onto the pump shaft. Screw the hose assembly into the side of the handle.
2. Remove the plastic lid from the sealant pail and replace it with the red pump lid. Tighten the three thumbscrews to anchor the cover to the pail. Insert the pump through the clamping collar from topside of the cover and push the pump to the bottom of the pail. Tighten the machine screw and nut in the clamping collar. The pump is now ready to use.

## **PUMP CALIBRATION**

As received the pump will dispense approximately 8-9.5 units per full stroke (all the way up and all the way down). It can be adjusted to dispense exactly 8 units by doing the following (SEE DIAGRAM ON PAGE 7 – Pump Maintenance Instructions):

1. Loosen the small calibration collar at the base of the 'T' handle by loosening the thumb screw in the collar.
2. Pull the pump handle (piston shaft) up as far as it will go.
3. Slide the small calibration collar down the pump handle (shaft) until the bottom of the collar is exactly 375mm (14 ¾") from the top of the metal cap which is threaded onto the top of the pump housing. This will place the small locking collar approximately 25-75mm (1"- 3") from the base of the 'T' handle.

## **INSTALLING THE SEALANT**

1. If the tyre operates at a high pressure, it is recommended that the tyre pressure is reduced to 40 p.s.i (2.75 bar). **It is not necessary to deflate the tyre completely.** Be sure pump and hose are primed, clean and free of surplus product. Ensure you have the correct company issue personal protective equipment as set out in our MSDS.
2. Remove the tyre valve core using a valve core removing tool.
3. Against the escaping air pressure attach the desired valve chuck assembly to the tyre valve stem, ensure the chuck is attached securely and open the hose end tap.
4. Pump in the recommended amount of the sealant. Never try to force the pump handle down. If it will not move make sure the valve tap is open and that the valve core has been removed. If it still will not pump, stop pumping and follow cleaning procedures listed in "Pump Maintenance" section on Page 7.
5. Once the dosage amount has been installed, close the hose end tap and remove from valve stem.
6. Re-insert valve core in stem.
7. Re-inflate the tyre to the recommended working pressure.

**For further technical support please contact our office.**

Air-Seal Products Ltd makes no implied Warrant of Merchantability or Fitness for any Particular Purpose and expressly disclaims any liability for consequential or incidental damages. The sole remedy shall be the replacement of the Air-Seal product.

## **INSTALLATION CHECKLIST**

1. Verify tyre size and refer to our application table.
2. Find treatment dosage according to tyre size.
3. Have 20 litre pail and pump ready for installation. Be sure pump and hose are primed, clean and free of surplus product. Visually check tyre valve for any damage.
4. Remove valve core, deflate tyre if necessary to 40 p.s.i (2.75 bar) and attach pump hose using the desired valve chuck.
5. Open the hose end tap on pump hose.
6. Inject sealant into tyre or tube. Do not over or under treat the tyre or tube. If you run short, open a new container.
7. Shut hose end tap on pump hose.
8. After treatment, remove the valve chuck from valve stem and allow air pressure to bleed a few seconds to clear sealant from stem, then install valve core.
9. Re-inflate tyre to recommended air pressure and rotate tyre.
10. Identify treated tyres by placing GREEN I.D. rings or caps over valve stem.
11. Tyre is ready to be put in service.

NOTE: Clean air compressor filter system to prevent water and/or foreign materials from being injected into the tyre. Tyres should be free of water before injecting AIR-SEAL PRODUCTS. For installation in to water ballasted tyres please contact us regarding our Hydro-Seal tyre sealant.

## **VALVE STEMS AND CORES**

When treating tube or tubeless tyres, valve stems should always be inspected. A damaged or dry rotted valve stem can create a lot of trouble if not replaced.

### **EXAMPLE:**

1. A valve that is bent can cause clogging during installation of sealant, replace the valve before resuming installation.
2. If the valve stem is slightly bent or creased, clogging may occur due to the restriction of sealant. If clogging occurs, remove the valve chuck from the stem. Forcing the sealant through will only increase the problem. Normally, a high pressure air hose will break loose the clogged area.

**NOTE: IF THE VALVE STEM IS BLOCKED DUE TO GENERAL CLOGGING OF THE SEALANT. PROBE THE VALVE STEM WITH A PIECE OF WIRE OR 3MM DRILL BIT.**

3. If the valve stem is a rubber type and is cracked or splitting, it is possible that it may break off during treatment.

**NOTE: ALWAYS REPLACE WORN OUT OR DRY ROTTED VALVES BEFORE TREATING TYRES.**

4. Any time a tyre or tube is treated, a damaged valve core should be replaced. In certain circumstances the valve core can become bent and the seat area can become damaged due to removal and re-installation several times.

## **INSPECTING TYRES BEFORE TREATING**

**NOTE: ALWAYS INSPECT THE TYRE BEFORE TREATING; THIS WILL PREVENT UNNECESSARY PRODUCT WASTE ON TYRES AND TUBES THAT SHOULD BE REPAIRED OR REPLACED BEFORE TREATING.**

For example, a tyre that is cut badly should be discarded. A cut or slash will spread apart when the tyre rolls on to the load point. When this occurs, the fibre content has nothing to hold on to and will blow through the damaged area, resulting in deflation.

When tubes are badly stretched or pinched they should be replaced to prevent the risk of premature failure.

Inspection of tyre and tubes will require good judgement and good safety habits. It makes no sense to waste time, money and sealant on tyres and tubes that are beyond repair or beyond being used safely.

**NOTE: SAFETY SHOULD ALWAYS BE THE MOST IMPORTANT FACTOR IN MAKING DECISIONS ON TYRES AND TUBES.**

## **SEALANT TREATMENTS AND TYRE IDENTIFICATION**

It is important to install the correct amount of sealant into the tyre according to our Tyre Application Chart. Incorrect amounts of sealant may cause problems with the performance of the tyre, i.e. vibration. Also, when tyres and tubes are treated, the valve stem should be marked by colour coding. This will eliminate double treating of the tyres and also if tyres are changed from one piece of equipment or one vehicle to another, enabling the user to track which tyres are treated.

A simple way of identifying your treated tyres is with the GREEN I.D. rings or caps. These are colour coded for easy identification and should be placed over the valve stem of each treated tyre. I.D. rings and caps are packaged 50 rings/caps per bag and can be purchased from **AIR-SEAL PRODUCTS Ltd**. A can of spray paint is another way to colour code the stems.



## **TREATMENT FORMULA**

### **OVER-THE-ROAD**

Rim Diameter multiplied by Tyre Width divided by 6 = Units

### **OFF-ROAD - AGRICULTURAL**

Rim Diameter multiplied by Tyre Width divided by 3 = Units

### **OFF-ROAD - CONSTRUCTION / SLOW MOVING**

Rim Diameter multiplied by Tyre Width divided by 2 = Units

When working out the amount of product required in a tyre with metric sizing as opposed to imperial you will need to divide the first large figure by 25.4 to give you an imperial measurement e.g. a truck tyre size 225/65-17.5 used in an over the road application will give you the following formula 225 divided by 25.4 = 8.86 so rim diameter 17.5 multiplied by tyre width 8.86 = 155.05 divided by 6 for on road use will give a final figure of 25.84 units. For ease of installation 3 calibrated pump strokes (24 units) will be sufficient for that size of tyre.

When installing the product into 4x4's do not install more than 2 pumps or 16 units per tyre and with saloon cars the recommendation is 1 pump or 8 units per tyre. This will reduce the risk of a wheel imbalance problem at speeds of over 50 m.p.h. It is advisable in high speed vehicles to balance the tyres prior to installation, balancing cannot be carried out once the sealant has been installed.

**For further technical support please contact our office.**

## **PUMP MAINTENANCE INSTRUCTIONS**

When properly maintained and cleaned, this pump will give years of good service. Flush clean water through the pump. Coat it, inside and out with a protective lubricant e.g. WD40 or a similar product to assure ease of operation and extend the life of the pump.

Occasionally, however, the pump can become clogged. To remedy this, immerse the bottom of the pump in a pail or other container of clean water and agitate with a stirring motion. This will usually dislodge the accumulation and the pump can be returned to service.

If the material is too tightly packed, it will be necessary to disassemble the foot valve and piston. This can be accomplished as follows:

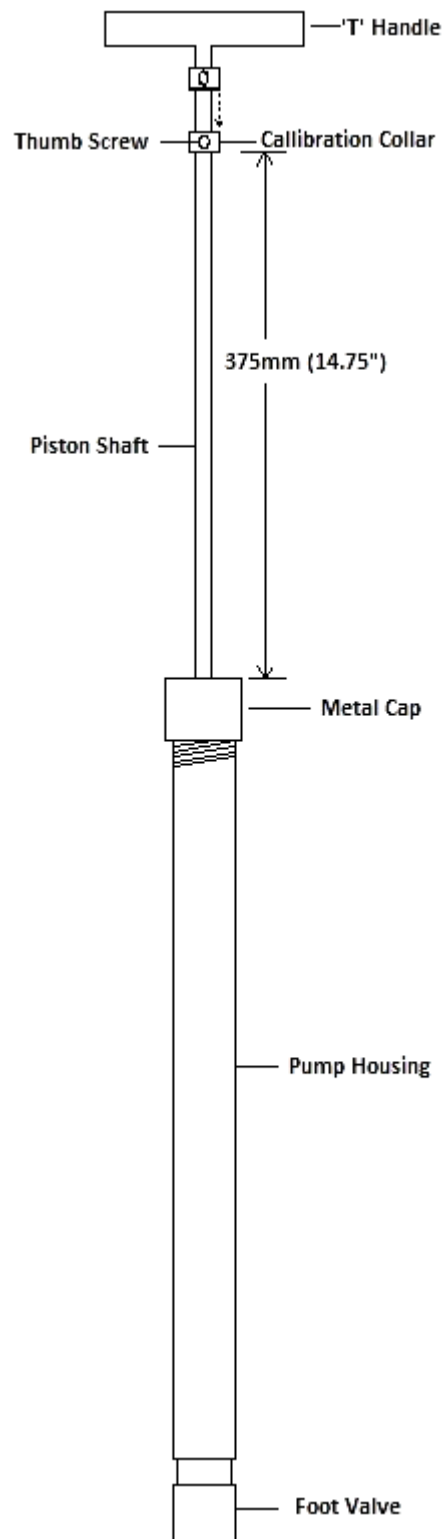
Unscrew the foot valve from the pump housing. Wash any accumulated material from the inside of the valve, ensuring the roll pin is free to rotate.

Unscrew the 'T' handle from the pump piston shaft & place handle & hose to one side. Unscrew the pump housing metal cap & pull the piston shaft out of the pump cylinder.

Unscrew the shaft from the inner piston. CAUTION: The check ball is loose in the piston and can fall out easily. Do not lose the ball from inside the foot valve.

Look at the bottom end of the rod. Remove any fouling material from the lower end of the piston shaft and from the inside of the piston. A small 'T' piece is located at the bottom of the piston shaft, this can become loose and removed with a fibre build up. Ensure that this is repositioned properly for effective pump operation.

Reassemble the pump in reverse order of disassembly. Assemble only to finger tightness. Do not over tighten.



## **MAINTAINING PROPER INFLATION**

When a tyre is treated with our tyre sealant, regardless if it is a tube or tubeless tyre, maintaining proper air pressure will be the key factor in establishing a high percentage rate of success in reducing flats.

For example, a properly inflated 295/80R22.5 tyre requires about 90-120 psi (6.2-8.2 bar) pressure. If this tyre is punctured numerous times and the sealing process takes place, the tyre's air pressure is being reduced each time it is punctured. The user should check air pressure daily as recommended by the tyre manufacturer's guidelines with regards to on road vehicles and adjust accordingly.

If the air pressure is not maintained and the tyre is continuously operated at an extremely low pressure the following may occur:

1. Sealant may not be forced into the wound fast enough to stop some pressure loss.
2. Tyre will operate at a higher temperature due to extreme under inflation and tyre wear will be increased drastically.
3. Tyre could break loose from rim and easily destroy a tube and/or tyre.

**NOTE: A SUCCESSFUL TYRE MAINTENANCE PROGRAMME BEGINS WITH MAINTAINING PROPER INFLATION.**

Always re-inflate the tyre and check for leaks. When the leak is found, check puncture to see that the hole is free of any foreign material. Once the puncture has been checked and cleared of any obstruction, rotate tyre and drive on the tyre or, if a trailer, pull the trailer to complete the sealing process. If the tyre continues to leak from the inspected puncture, please refer to your local tyre professional.

**REMEMBER: Weight, centrifugal force and air pressure are the forces necessary for the sealant to seal the tyre.**

## **PROCEDURE FOR SEALING PUNCTURED TYRES**

**NOTE:** Tyre sealants cannot repair side wall damage.

1. **HEAVY DUTY** Grade will seal most punctures up to 15mm ( $\frac{5}{8}$ "') in the tread area only.
2. **ARMOR-SEAL** Grade will seal most punctures up to 30mm ( $1\frac{1}{4}$ "') in the tread area only.
3. Before removing objects from tyres that are treated with sealant, ensure the tyre has been driven so that the sealant is well distributed. If the object has been in the tyre for a long period of time it is wise to reduce the air pressure before removing the object so that excessive product waste is eliminated.

**EXAMPLE:** A 295/80R22.5 tyre has a recommended air pressure of 90-120 psi (6.2-8.2 bar). Reduce air pressure to 40 psi (2.75 bar) and remove puncturing object. Rotate the tyre rolling over the punctured area a number of times. If the leak continues use a hammer to hit the tyre around the punctured area to flex the rubber. This encourages the fibres in the sealant to catch the rubber around the puncture and effect a seal. Then re-inflate the tyre to its correct pressure.

**REMEMBER:** Objects left in the tyre for a long period of time will be harder to seal because the rubber has conformed to the shape of the object that has been lodged in the tyre. If weather conditions are extremely cold, remember – rubber does not flex as well when it is cold.

4. It is unnecessary to remove the tyre from the wheel rim until all the above options have been exhausted.

**NOTE:** Check puncture to see that the hole is free of any broken material. Once the puncture has been checked and cleared of any obstruction, rotate the tyre and drive on it.

**REMEMBER:** Weight, centrifugal force and air pressure are the forces necessary for the sealant to seal the tyre.

## **PROCEDURE FOR THORN PUNCTURES**

The following procedures should be followed when using the sealant in areas where thorns are the primary cause of punctures.

Always remember, when a thorn punctures a tyre it will usually break off, making removal impossible. At this point, the thorn will generally start decaying in the tyre. The sealant will always find the area of air loss and will seal the puncture while the tyre is rotating.

**NOTE:** REMEMBER IF A TYRE HAS BEEN PUNCTURED BY THORNS AND IS PARKED FOR A LONG PERIOD OF TIME, THE THORN WILL CONTINUE TO DECAY IN THE TYRE AND WILL ALLOW AIR TO ESCAPE. THIS WILL HAPPEN BECAUSE THE SEALANT RETURNS TO THE BOTTOM OF THE TYRE WHEN THE WHEEL IS STATIONARY. ONCE THE TYRE IS ROTATED WITH WEIGHT ON IT, THE AREA AROUND THE THORN WILL RE-SEAL.

Air pressure, weights, and centrifugal force are all needed to assure a good seal. THE SEALANT CANNOT REACH PUNCTURED OR LEAKING AREAS IN THE TYRE WITHOUT ROTATING THE TYRE.

**NOTE:** THIS PROCEDURE MAY OR MAY NOT BE POSSIBLE IN TUBE TYPE TYRES, DEPENDING ON THE LOCATION AND SEVERITY OF THE PUNCTURE.

## **USING THE SEALANT AS A REPAIR PRODUCT IN TUBELESS TYRES**

Repairing tubeless tyres:

1. The tyre should be inspected to determine the reason for the deflation before re-inflating if safe to do so.
2. When the punctured area is found, the tyre should be marked. Providing it is repairable, the sealant can now be installed into the tyre.
3. Once the sealant has been installed into the tyre, replace the valve core and re-inflate the tyre to the correct pressure. Immediately rotate the tyre, preferably by driving on it. Rotation will ensure that the fibres being pushed through the tyre result in a permanent plug.
4. If the tyre is off the equipment or vehicle, it should be re-mounted and driven on to complete the plugging process. Air pressure alone will not provide a solid seal. When the tyre is completely sealed, the full recommended quantity of sealant should be installed and the tyre inflated to the correct pressure.

When a punctured tyre treated with sealant does not seal properly and continues to seep, the following steps should be taken:

- The tyre should be checked for pressure.
- Drive on the tyre (preferably with added weight to aid rubber recovery & help the plugging process).
- If condition persists, please contact our office or local tyre professional.
- Repeat the necessary steps to complete the sealing process.

**NOTE: ALWAYS INSPECT THE TYRE FOR ANY BROKEN OBJECTS. THE SEALANT WILL NOT SEAL PERMANENTLY UNTIL THE PUNCTURE WOUND IS CLEARED. THIS WILL ALSO PREVENT FURTHER TYRE DAMAGE DUE TO OBJECTS LEFT IN THE TYRE.**

## **TYRE AND TUBE REPAIRS BEYOND SEALANT CAPABILITIES**

Tyres and tubes treated with the sealant may be repaired or remoulded.

If a tyre or tube is in need of repair, the sealant can be removed by simply washing it out with water at normal tap pressure.

NOTE: A WORKSHOP WET & DRY VACUUM CLEANER WORKS WELL IN REMOVING USED SEALANT FROM THE TYRE.

On tubeless tyres, the tyre will have to be dismantled. The punctured or damaged area can be washed off and wiped dry. At this time a repair can be carried out. After completion of this process, the tyre can be remounted, the necessary amount of sealant re-installed and the tyre inflated to the correct pressure. The tyre is now ready to be put back into service.

If a tube needs repair the tyre must be removed on one side and the tube removed. Upon finding the damaged or punctured area, the tube can be rinsed off and wiped dry. At this time, the tube can be repaired. Clear any remainder of the puncturing object so as not to cause any further damage. After completing the repair, the tube can be re-installed into the tyre and inflated to the correct pressure. Additional sealant will be needed to replace lost product.

NOTE: THE SEALANT IN THE TUBE WILL NOT AFFECT THE REPAIR PROCESS. THIS ELIMINATES HAVING TO DRAIN THE TUBE TO CARRY OUT REPAIRS. THE TYRE CAN BE REMOUNTED FOR FURTHER USE.

BEFORE PUTTING THE TYRE BACK IN SERVICE, BE SURE CORRECT AIR PRESSURE IS IN BOTH TUBELESS OR TUBED TYRES AFTER THE REPAIR IS MADE.

## **THE SEALANT LIFE AND RE-TREATMENT**

One treatment should last the life of the tyre in normal use. However, if the tyres have been subjected to several punctures, 6mm (¼") or larger in size, each time the tyre is punctured, or a major bead or rim leak occurs it may eject a little of the sealant as the puncture is sealed (this may or may not happen depending upon tyre size, air pressures, etc.).

If the tyre is subjected to many punctures we recommend that the level of sealant in the tyre is topped up with 20% of the original amount to keep the sealant at its maximum sealing level. However tyre size and usage should be taken in to consideration.

EXAMPLE: If the original treatment was 40 units, in 18 months you should add another 8 units to the tyre. This will replace any material that may have escaped during the sealing action.

## **TROUBLESHOOTING & FURTHER ADVICE**

1. After the tyre is treated it is recommended that the vehicle is then driven to ensure the sealant is fully distributed within the tyre.
2. Tyres should be inspected at weekly intervals and all puncturing objects (nails etc) removed and pressures checked. The vehicle must be driven **immediately** after removing the object which has penetrated the tyre. If this action is not taken the tyre could lose air pressure and the puncture may not seal properly. If operating under extreme conditions, daily inspection may be necessary. Leaving a puncturing object in a tyre for long periods can result in sealing difficulties once the object is removed. This occurs because the rubber will lose its elasticity and conform to the shape of the puncturing object. When the object is removed, an open hole will remain. While the sealant will seal punctures up to 15mm with Heavy Duty and up to 30mm with the Armor-Seal grade in the tread area of the tyre, the size of any puncture it can plug will decrease the further it is from the centre of the tread.
3. Increased amounts of the tyre sealant may be required for off-the-road and recreational vehicles which travel at low speeds and under extremely hazardous conditions. In such conditions or over rough terrain, small amounts of the sealant are lost each time a puncture occurs.
4. Tube and tubeless tyres treated with the tyre sealant will produce a significant reduction in flat tyres and related downtime. A reduction of 90-95% of punctures can be expected from tubeless tyres and between 70-75% for tube type.
5. If a puncture DOES NOT seal properly, check for the following:
  - Lack of sealant in the tyre
  - Oily or lubricated puncturing object
  - Side wall puncture
  - Tread separation
  - Rips, tears, or cord damage
  - Stretched rubber, sometimes found in over inflated tubeless tyres
  - Improper tube size for the tyre
  - Puncturing object larger than 15mm ( $\frac{5}{8}$ " ) for Heavy Duty or 30mm diameter ( $1\frac{1}{4}$ " ) for Armor-Seal in the tread area
  - Valve leaks
  - A puncturing object that has been in the tyre for an extended period.
6. It is important to recognise that not all vehicle vibration problems are tyre sealant related.
7. If excessive vibration occurs, check for the following:
  - Out of round tyres or rims
  - Excessive lateral run out
  - Shifted belting in the tyre
  - Toe-in or toe-out
  - Mechanical malfunction
  - Tread separation
  - Too much product installed



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** AIR-SEAL HEAVY DUTY TYRE SEALANT

**Synonyms/Generic Names:** Tyre Sealant

**Product Number:** HD01

**Product Use:** Tyre Sealant

**Distributor:** Air-Seal Products Ltd, Unit8E Greenham Business Park, Greenham, Wellington, TA21 0LR

**For More Information Call:** +44 (0) 1823 674411 (Monday-Friday 9:00 – 5:00)

### 2. HAZARDS IDENTIFICATION

Classification of substance or mixture:	Not a hazardous substance or mixture
GHS Label Elements, including precautionary statements:	Not a hazardous substance or mixture
Hazards not otherwise classified (HNOC) or not covered by GHS:	None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Propylene Glycol*	<50	57-55-6	200-388-0	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	76.09 g/mol

\*Less than 50% in mixture. Remaining components not reportable at concentrations in the mixture.

**Synonyms:** 1,2 - Propanediol

### 4. FIRST-AID MEASURES

Description of first aid measures:

<b>Eyes</b>	In case of eye contact, rinse with plenty of water and seek medical attention.
<b>Inhalation</b>	Move casualty to fresh air. Get medical attention if symptomatic.
<b>Skin</b>	Immediately flush with plenty of water.
<b>Ingestion</b>	<b>Do Not Induce Vomiting.</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media</b>	Non-flammable. Use appropriate media for adjacent fire. Cool containers with water.
<b>Special protective equipment and precautions for fire fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.
<b>Specific hazards arising from the chemical</b>	None.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions</b>	Non-hazardous to the environment.
<b>Methods and materials for containment and cleaning up</b>	Wipe up small spills with absorbent cloth then place in a suitable container for disposal. Dispose of all waste and cleanup materials in accordance with regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.

### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: (Propylene Glycol)

Components with workplace control parameters:

Component	CAS-No	Value	Control Parameters	Basis
Propylene Glycol*	57-55-6	TWA	10mg/m <sup>3</sup>	Workplace Environmental exposure levels (WEEL)

\* Less than 50% of mixture. Remaining components not –reportable at mixture concentrations

### Personal Protection

<b>Eyes</b>	Protect from splashing; wear safety glasses when handling product.
<b>Inhalation</b>	General room ventilation is expected to be adequate.
<b>Skin</b>	Handle material to avoid skin contact. Wash with water as required.
<b>Other</b>	Not Available

### Other Recommendations

Provide eyewash stations and washing facilities accessible to areas of use and handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc.)	Orange viscous liquid, heterogeneous mixture
Odour	Odourless.
Odour threshold	Not Available
pH	8-10
Melting point/freezing point	-35°C
Initial boiling point	No data available
Flash point	Non-flammable
Evaporation rate	No data available
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limit	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Density	1.03 g/mL (Water = 1)
Water Solubility	Soluble in cold water, hot water except insoluble solids in the mixture.
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Non-flammable
Decomposition temperature	Not data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Stable under recommended storage and usage conditions
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity (Propylene glycol)

<b>Skin</b>	Human – Mild skin irritation – 0 7 d
<b>Eyes</b>	Eyes - rabbit - Mild eye irritation
<b>Respiratory</b>	Not data available
<b>Ingestion</b>	LD50 Oral - rat - 4,700 mg/kg

### Carcinogenicity

<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	A4: Not classifiable as a human carcinogen.
<b>NTP</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

<b>Skin</b>	Irritation, redness, itchiness.
<b>Eyes</b>	Irritation, redness, watering eyes, itchiness.
<b>Respiratory</b>	Respiratory failure, convulsions, cardiovascular collapse, pulmonary edema.
<b>Ingestion</b>	Nausea, vomiting, abdominal pain, weakness, muscle tenderness.
<b>Chronic Toxicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Embryotoxicity</b>	No data available
<b>Specific Target Organ</b>	No data available
<b>Reproductive</b>	No data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity (Listed Ingredient – Propylene glycol)

<b>Aquatic Vertebrate</b>	Mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l – 96 h
<b>Aquatic Invertebrate</b>	EC50 - Daphnia magna (Water flea) - >10,000 mg/l – 48 h
<b>Terrestrial</b>	No data available

<b>Persistence and Degradability</b>	No data available
<b>Bio accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>PBT and vPvB Assessment</b>	No data available
<b>Other Adverse Effects</b>	No data available



### **13. DISPOSAL CONSIDERATIONS**

<b>Waste Residues</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposal.
<b>Product Containers</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposal.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

### **14. TRANSPORTATION INFORMATION**

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

### **15. REGULATORY INFORMATION**

California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm
SARA 302	No chemicals in this material with known CAS numbers are subject to the reporting requirements of SARA Title III, Section 302
SARA 311	No SARA Hazards
SARA 312	No SARA Hazards
SARA 313	No chemicals in this material with known CAS numbers are subject to the reporting requirements of SARA Title III, Section 313

### **16. OTHER INFORMATION**

Revision	Date

### **Disclaimer**

Air-Seal Products Ltd ("Air-Seal") believes that the information herein is factual but is not intended to be all inclusive. This information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Air-Seal has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored nor used and that the same is done in accordance with national and local laws.

**END**



## Tyre Application Chart

Rim size: 4 – 9 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>4-in. Rim</b>			
2.80-4		8	8
3.40-4		8	8
4.1/3.50 - 4		8	8
9/3.50-4		8	8
4.10-4		8	8
<b>5-in. Rim</b>			
4.1/3.50 - 5		12	12
11/3.50-5		12	12
11/4.00-5		12	12
10.00/4.50-5		12	12
11/4.50-5		12	12
10.5/5.00-5		16	16
13/3.50-5		16	16
11X6.00-5		16	16
11X7.00-5		16	16
11X7.50-5		16	16
22.5X10.00-5		24	24
<b>6-in. Rim</b>			
4.10X3.50-6		12	12
16X4.00-6		12	12
4.00-6		12	12
16X4.50-6		16	16
5.30-6		16	16
6.90/6.00-6		20	20
12X6.00-6		20	20
14X6.00-6		20	20
15X6.00-6		20	20
13X6.50-6		20	20
12X8.00-6		24	24
12X11.00-6		32	32
<b>7-in. Rim</b>			
4.50-7		16	16
4.80-7		16	16

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>8-in. Rim</b>			
4.00-8		16	16
4.80/4.00-8	8	16	16
4.30-8		16	16
4.80-8	8	20	20
5.70/5.00-8	8	20	20
18X5.70-8		24	24
5.70-8		24	24
6.00-8		24	24
16X6.50-8		32	32
16.5X6.50-8		32	32
18X6.50-8		32	32
18X7.00-8		32	32
20X7.00-8		32	32
20.5X7.00-8		32	32
16X7.50-8		32	32
18X8.50-8		36	36
18.5X8.50-8		36	36
18X9.00-8		36	36
22X9.00-8		36	36
18X9.50-8		40	40
20X10.00-8		40	40
20.5X10.00-8		40	40
22.5X10.00-8		40	40
20X11.00-8		48	48
21X11.00-8		48	48
22X11.00-8		48	48
21X12.00-8		48	48
<b>9-in. Rim</b>			
4.80/4.00-9	8	20	20
6.00-9		28	28
6.90-9		32	32
21X11.00-9		36	36
25X11.00-9		52	52
22X12.00-9		56	56
25X12.00-9		56	56
25X13.00-9		60	60

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 10 – 15 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>10-in. Rim</b>			
4.50-10		24	24
6.50-10		32	32
21X7.00-10		36	36
7.50-10		40	40
20X8.00-10		40	40
20.5X8.00-10		40	40
22X8.00-10		40	40
23X8.5-10		44	44
9.00-10		44	44
18X9.50-10		48	48
20X10.00-10		52	52
22X10.00-10		52	52
22X11.00-10		56	56
24X11.00-10		56	56
20X12.00-10		60	60
20X14.00-10		72	72
27X15.00-10		74	74
15.00-10		74	74
20X20.00-10		100	100
20.50-10		104	104
<b>10.5in Rim</b>			
23.00-10.5			120
<b>11-in. Rim</b>			
23X8.00-11			44
23.5X8.00-11			44
24X9.00-11			52
<b>12-in. Rim</b>			
3.00-12			20
4.00-12			24
4.50-12			28
4.80-12			28
5.00-12			32
5.30-12			32
5.70-12			36
6.00-12			36
155/80-12	8	24	36
7.00-12	16	28	44
7.50-12	16	28	44

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>12-in. Rim Cont.</b>			
23X8.00-12	16		48
8.30-12	16		52
23x8.50-12	16		52
23x9.00-12	20		56
27/10.00-12	20	40	60
10.00-12	20	40	60
23x10.50-12	20	40	64
13X12.00-12	24	48	72
24X12.00-12	24	48	72
26X12.00-12	24	48	72
24X13.00-12	28		80
513/80-12	40		120
<b>13-in. Rim</b>			
155/80-13	12		40
175/80-13	16		44
185/80-13	16		48
<b>14-in. Rim</b>			
7.50-14			52
7.60-14			52
205/75-14	16		56
215/75-14	16		60
25X8.50-14	20		60
8.50-14	20		60
9.50-14			68
9.50-14			68
11.00-14	28		76
13.00-14	32		92
185-14	16	40	
195-14	16		
<b>14.5-in. Rim</b>			
9.00-14.5	24		64
<b>15-in. Rim</b>			
25X2.50-15	8		20
4.00-15	12		32
4.40-15	12		32
5.00-15	12		40
5.70-15	16		44

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 15 – 16 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>15-in. Rim Cont.</b>			
5.90-15	16		44
6.00-15	16		44
6.70-15	16		52
175/85-15	16		52
7.00-15	20		52
25X7.50-15	20		56
7.60-15	20		56
205/85-15	20		60
205/75-15	20		60
8.25-15	20		64
215/75-15	20		64
27X8.50-15	20		64
28X8.5-15	20		64
27X8.5-15	20		64
68.5/78-15			64
8.5-15			64
225/75-15	24		68
28X9.00-15	16		68
235/75X15	24		68
27X9.50-15	16		72
29X9.50-15	16		72
30X9.50-15	16		72
32X9.50-15	16		72
250/70-15	24		76
29X10.00-15	24		76
10.00-15	24		76
25X10.50-15	16		80
27X10.50-15	16		80
31X10.50-15	16		80
36X11.00-15	16		84
11.00-15	16		84
31X11.50-15	16		88
32X11.50-15	16		88
32X12.00-15	16		92
33X12.00-15	16		92
12.00-15			92
28x12.00-15	20		92
25X12.50-15	20		96
29X12.50-15	20		96

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>15-in. Rim Cont.</b>			
31X12.50-15	20		96
33X12.50-15	20		96
25X12.50-15	20		96
12.50-15	32		96
28X13.00-15	32		100
31X13.50-15	36		100
36X13.50-15	36		100
365/80-15	36		108
14.50-15	36		108
32X15.00-15	40		112
35X15.00-15	40		112
31X15.00-15	40		116
38X16.00-15	40		120
21.50-15	56		160
<b>15.3-in. Rim</b>			
10.0x80-15.3		52	80
11.5x80-15.3		56	80
12.5x80-15.3		62	80
<b>15.5-in. Rim</b>			
11.5x80-15.5			88
<b>16-in. Rim</b>			
4.00-16	12		32
4.50-16	12		36
5.00-16	12		40
5.50-16	16		44
6.00X16	16		48
6.50X16	16		52
6.60-16	16		52
7.00-16	16		56
7.20-16	16		60
7.50-16	16	40	60
7.50/8.00-16	16		64
8.00-16	20		64
8.25-16	24		68
8.30-16	24		68
215/85-16	16		68
225/75-16	16		72
225/85-16	16		72
9.00-16			72

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 16 – 18 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>16-in. Rim Cont.</b>			
235/85-16	16		76
9.50-16			76
245/75-16	16		76
245/85-16	16		76
10.00-16			80
255/85-16	16		80
265/75-16	16		84
11.00-16			88
280/70-16			88
11.20-16			92
12.40-16			100
12.50-16			100
13.50-16			108
13.60-16			108
<b>16.1-in. Rim</b>			
11.00-16.1	36		88
13.50-16.1	36		108
13.60-16.1	36		108
14.00-16.1			112
14.5/75-16.1	40		116
16.50-16.1	44		132
18.40-16.1	48		148
35x19.00-16.1	52		152
38x19.00-16.1	52		152
38x20.00-16.1	56		160
21.50-16.1			172
<b>16.5-in. Rim</b>			
8.00-16.5			64
8.75-16.5			72
9.50-16.5			76
10.00-16.5			84
11.00-16.5			90
12.00-16.5			100
<b>17-in. Rim</b>			
7.00-17	20		60
7.50-17	20		64
8.25-17	24		72
<b>17.5-in. Rim</b>			
7.00-17.5	20		60

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>17.5-in. Rim Cont.</b>			
8.00-17.5	24		72
205/65-17.5	24		72
215/75-17.5	24		76
8.50-17.5	24		76
225/65-17.5	24		80
225/70-17.5	28		80
225/75-17.5	28		80
9.50-17.5	28		80
235/75-17.5	28		80
240/55-17.5	28		84
255/70-17.5	28		84
10.00-17.5	28		88
255/60-17.5	30		88
255/70-17.5	30		88
11.00-17.5	32		96
14.00-17.5	40		124
36X16.00-17.5	48		140
<b>18-in. Rim</b>			
4.00-18		24	36
6.00-18	20	36	56
7.00-18	20	44	64
7.50-18	24	44	68
10.00-18	32	64	92
10.50/80-18		64	96
10.50-18	32	64	96
11.00-18	32	68	100
12.0/12.50-18		72	108
12.50-18	40	76	112
12.5/80-18	40	76	112
13.00-18	40	76	116
335/80-18	40	80	120
340/80-18	40	80	120
365/70-18	44	88	128
400/70-18	48	96	144

For additional sizes including bicycle, motorbike, car and van – Please contact us





## Tyre Application Chart

Rim size: 19 – 22 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>19-in. Rim</b>			
4.00-19			40
6.00-19			56
<b>19.5-in. Rim</b>			
7.00-19.5			68
8.00-19.5			80
225/70-19.5	28		88
9.00-19.5	28		88
9.50-19.5	32		92
245/70-19.5	32		96
245/75-19.5	32		96
265/70-19.5	36		104
265/75-19.5	36		104
285/70-19.5	36		108
285/75-19.5	36		108
305/70-19.5	40		116
305/75-19.5	40		116
15.00-19.5	40		148
385/65/19.5	48		148
33X16.00-19.5	52		156
16.50-19.5	56		160
435/50-19.5	56		168
445/55-19.5	56		172
445/65/19.5	56		172
18.00-19.5	60		176
40x19.00-19.5	64		184
19.50-19.5	64		192
<b>20-in. Rim</b>			
7.00-20			72
7.25-20			72
7.50-20	24		76
8.00-20			80
8.25-20	28		84
9.00-20	32		92
9.50-20	32		96
10.00-20	48	64	144
10.30-20	48		104
10.00/10.50-20	48		104
10.50-20	48		104
11.00-20	48	72	112

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>20-in. Rim Cont.</b>			
280/70-20	48		112
11.20-20	48		112
11.50-20	48		116
300/70-20			120
12.00-20	48		120
12.50-20	48		124
13.00-20	48		132
225/80-20	48		132
38X14.00-20	48		140
41X14.00-20	48		140
365/80-20	48		144
365/85-20	48		144
14.50-20	48		144
380/70/20	52		152
395/85-20	52		156
400/70/20	52		160
405/70-20	52		160
16.00-20	52		160
17.50-20			176
44X18.00-20	64		180
50X20.00-20	64		200
24X24.00-20	64		240
48X31.00-20			312
44X41-20	64		412
<b>20.5-in. Rim</b>			
24.00-20.5			246
<b>21-in. Rim</b>			
5.00-21	20		52
6.00-21	20		64
12.00-21	44		128
16.00-21	56		168
21.00-21	64		220
23.00-21	64		244
24.00-21	64		252
27.25-21	64		288
<b>22-in. Rim</b>			
7.50-22	28		84
8.50-22	32		96
9.50-22			104

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 22.5 – 24 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>22.5-in. Rim</b>			
10.00-22	36		112
11.00-22	40		120
12.00-22	44		132
8.00-22.5	48		92
205/70-22.5	48		92
225/60-22.5	48		100
9.00-22.5	48		92
235/80-22.5	48		104
245/75-22.5	48		108
10.00-22.5	48	72	112
255/70-22.5	48	72	112
265/70-22.5	48	76	116
255/80-22.5	48	72	116
265/75-22.5	48	76	116
275/70-22.5	48	80	124
275/80-22.5	48	80	124
11R-22.5	48	84	124
11.50-22.5	48	88	128
295/60-22.5	48	88	132
295/70-22.5	48	88	132
295/75-22.5	48	88	132
295/80-22.5	48	88	132
12.00-22.5	48	92	136
305/75-22.5	48	92	136
315/60-22.5	52	92	140
315/70-22.5	52	92	140
315/80-22.5	52	92	140
12R-22.5	52	92	140
13.00-22.5	52	96	148
14.00-22.5	56	104	160
365/70-22.5	56	104	164
15.00-22.5	56	112	168
385/65-22.5	56	112	172
15.5-22.5	60	116	176
16.00-22.5	60	120	180
16.5-22.5	64	124	188
425/50-22.5	64	124	188
425/65-22.5	64	124	188
445/50-22.5	64	128	196
445/65-22.5	64	128	196

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>22.5-in. Rim Cont.</b>			
455/55-22.5	64	132	204
41x18.00-22.5		136	200
18.00-22.5		136	204
500/60-22.5		148	220
560/65-22.5		160	248
600/50-22.5		180	268
700/50-22.5		210	280
710/40-22.5		210	316
<b>23.5-in. Rim</b>			
23.00-23.5			272
<b>24-in. Rim</b>			
7.20-24		56	88
7.50-24		60	104
8.30-24		64	104
9.00-24		72	112
9.5-24		76	120
10.00-24		80	120
255/70-24		80	120
11.00-24	44	88	136
11.20-24		88	136
11.25-24		88	136
11.4-24		88	136
11.50-24		88	136
12.0-24	48	96	144
12.4-24		96	148
320/70-24		100	152
320/75-24		100	152
320/85-24		100	152
13.00-24		104	160
340/85-24		104	160
13.6-24		108	164
14.00-24		112	168
360/70-24		112	172
14.9-24		120	176
380/70-24		120	180
15.00-24		120	180
15.5/80-24		124	192
16.00-24		124	192
16.50-24		132	200

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 24– 26 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>24-in. Rim Cont.</b>			
420/70-24		132	200
16.9-24		136	204
17.00/80-24		136	204
440/80-24		136	208
17.50-24		140	208
18.00-24		144	216
460/70/24		144	216
18.30-24		148	220
18.4-24		148	220
480/65-24		152	228
480/70-24		152	228
19.40-24		156	232
19.50-24		156	236
500/70-24		156	236
20.00-24		160	240
21.00-24		168	252
540/65-24		172	256
540/70-24		172	256
560/65-24		176	264
<b>24.5-in. Rim</b>			
275/80-24.5	44		132
11.00-24.5	44		136
285/75-24.5	48		136
285/80-24.5	48		136
295/75-24.5	48		144
12.00-24.5	48		146
305/75-24.5	48		146
13.50-24.5	56		164
355/75-24.5	56		172
15.00-24.5	60		184
18.00-24.5	76		220
<b>25-in. Rim</b>			
265/70-25			132
11.00-25			140
12.00-25			152
13.00-25			164
14.00-25			176
15.50-25			196
16.00-25			200

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>25-in. Rim Cont.</b>			
17.50-25			224
445/80-25			224
445/95-25			224
61x18.00-25			224
20.50-25			256
525/80-25			260
525/95-25			260
21.00-25			264
550/65-25			272
22.00/65/25			276
22.00-25			276
23.00/90-25			288
23.50-25			296
24.00-25			300
25.00/65-25			312
650/65-25			320
660/34-25			324
670/34-25			332
26.50-25			332
705/65-25			348
705/70-25			348
29.50-25			368
750/65-25			368
755/70-25			372
30/65/25			376
800/50-25			392
850/65-25			420
67x34.00-25			424
54x37.00-25			464
40.50-75-25			508
1050/50-25			516
66x43.00-25			540
66x44.00-25			552
<b>26-in. Rim</b>			
12.4-26		108	160
13.6-26		116	176
14.9-26		128	196
420/85-26		144	216
16.9-26		148	220

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 26 – 32 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>26-in. Rim Cont.</b>			
18.00-26		156	236
18.4-26		160	240
480/80-26		164	248
580/70-26		196	296
23.10-26		200	300
23.5-26		204	308
24.00-26		208	312
620/75-26		212	316
28.00-26		240	364
750/55-26		256	384
54x31.00-26		268	404
57x31.00-26		268	404
67x34.00-26		296	444
66x43.00-26		372	560
<b>28-in. Rim</b>			
11.2R-28		104	156
11.25-28		104	160
11.9R-28		112	168
12.4-28		116	176
13.6-28		128	192
360/70-28		132	200
14.9R-28		140	208
380/85-28		140	208
15.00/28		140	212
420/70/28		152	232
420/85-28		152	232
16.9R-28		156	236
17.00/28		160	240
440/80-28		160	244
18.4R-28		172	260
480/65-28		176	264
480/70-28		176	264
21.00/28		196	296
540/65-28		200	300
580/70-28		212	320
600/65/28		220	332
<b>29-in. Rim</b>			
21.00-29			304
24.00-29			348

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>29-in. Rim Cont.</b>			
26.50-29			384
29.50-29			428
30.00/65-29			436
775/65-29			444
800/65-29			456
33.25-29			484
875/65-29			500
<b>30-in. Rim</b>			
4.00-30		40	60
6.00-30		60	92
7.20-30		72	108
9.5-30		96	144
14.9-30		148	224
380/85-30		148	224
420/90-30		168	248
16.9R-30		168	256
17.00-30		168	256
18.4R-30		184	276
480/70-30		188	284
480/80-30		188	284
480/85-30		188	284
21.00-30		208	316
540/65-30		212	320
520/70-30		204	344
23.1R-30		232	348
600/70-30		236	356
620/75-30		244	368
67x30.00-30		300	452
67x34.00-30		340	512
<b>32-in. Rim</b>			
8.30-32		88	132
9.5R-32		104	152
12.4R-32		132	200
16.9R-32		180	272
24.5R-32		260	392
650/75-32		272	408
30.00-32		320	480
30.50-32		324	488
800/65-32		336	504

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## Tyre Application Chart

Rim size: 32 – 38 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>32-in. Rim Cont.</b>			
33.50-32		356	536
900/55-32		376	568
900/60/32		376	568
900/65-32		376	568
35.50-32		376	568
73x44.00-32		468	704
68x50.00-32		532	800
<b>33-in. Rim</b>			
18.00-33			296
27.00-33			448
30.00-33			496
33.50-33			552
35/65-33			580
37.50-33			620
35/65.00-33			576
<b>33.5-in. Rim</b>			
13.00-33.5			220
<b>34-in. Rim</b>			
11.2-34		128	192
290/95-34		128	196
12.4-34		140	212
320/85-34		140	216
14.9-34		168	252
380/85-34		168	256
385/85-34		172	260
420/70-34		188	280
420/80-34		188	280
420/85-34		188	280
16.9-34		192	288
18.4-34		208	312
18.50-34		208	316
480/70-34		212	320
480/85-34		212	320
20.8-34		236	356
540/65-34		240	360
540/75-34		240	360
23.10-34		260	392
650/75-34		276	436
710/75-34		316	476

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>35-in. Rim</b>			
21.00-35			368
24.00-35			420
29.5-35			516
33.25-35			584
37.25-35			652
<b>36-in. Rim</b>			
9.50-36		112	172
11.20-36		136	204
12.4-36		148	224
320/85-36		152	228
13.6-36		164	244
13.9-36		168	250
14.9-36		180	272
16.9-36		204	304
18.00-36		216	324
<b>38-in. Rim</b>			
11.2-38		140	212
12.4/38		156	236
320/85-38		160	240
13.60/38		172	260
14.9/38		188	284
380/80-38		188	284
15.50-38		196	296
16.9-38		212	320
18.4-38		232	352
480/80-38		240	360
500/85-38		248	376
520/85-38		260	388
20.8-38		264	396
580/70-38		288	436
600/65-38		300	448
650/65-38		320	488
650/75-38		320	488
650/85-38		320	488
710/70-38		354	532
800/70-38		400	600
850/80-38		424	636

For additional sizes including bicycle, motorbike, car and van – Please contact us



## Tyre Application Chart

Rim size: 39 – 57 inches

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>39-in. Rim</b>			
33.50-39			652
37.50-39			732
40.00-39			780
40.50/75-39			792
41.25/70-39			804
43.50-39			848
45.00/65-39			880
900/50-39			708
<b>42-in. Rim</b>			
9.50-42		132	200
12.4-42		172	260
320/80-42		176	264
320/90/42		176	264
18.4-42		256	388
480/80-42		264	396
500/85-42		276	412
520/85-42		288	432
20.8-42		292	436
620/70-42		340	512
650/65-42		256	536
710/70-42		392	588
900/50-42		496	744
<b>43-in. Rim</b>			
24.00-43			516
<b>45-in. Rim</b>			
45.00/65-45			1012
65.00/45-45			1464
<b>46-in. Rim</b>			
12.4-46		188	284
320/95-46		188	284
340/85-46		204	308
13.60-46		208	312
14.9-46		228	344
380/85-46		228	344
420/80-46		252	380
18.4-46		280	424
480/80-46		288	436
500/85-46		300	452
520/85-46		312	472

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>46-in. Rim Cont.</b>			
620/70-46		372	560
<b>48-in. Rim</b>			
230/95-48		144	216
<b>49-in. Rim</b>			
18.00-49			440
21.00-49			516
24.00-49			588
27.00-49			664
<b>50-in. Rim</b>			
320/90-50			316
380/90-50			376
380/105-50			376
480/80-50			472
<b>51-in. Rim</b>			
30.00-51			764
33.00-51			844
36.00-51			920
37.50-51			956
50.00/65-51			1276
<b>54-in. Rim</b>			
12.4-54			336
320/90-54			340
320/105-54			340
380/90-54			404
<b>56.5-in. Rim</b>			
27.00-56.5			764
30.00-56.5			848
<b>57-in. Rim</b>			
37.00-57			1056
40.00-57			1140
44.00/80-57			1256
44.00/95-57			1256
49.50-57			1412
50.00/80-57			1424
50.00/90-57			1424
55.00/80-57			1568

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## Tyre Application Chart

Rim Size: 63 inches & Notes

	On Road Qty (Units)	Agricultural Qty (Units)	Off Road Qty (Units)
<b>63-in. Rim</b>			
53.00/80-63			1672
55.00/80-63			1732
58.00/80-63			1828

For any other sizes including car tyres please call our office for details.

### NOTES

