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AMTEC LIQUID METAL TREATMENT

Introduction

AMTEC contains 100% Synthetic Metal Conditioner Non-Oily Molecular Bond. AMTEC quickly penetrates surface rust and dirt to get deep into moving parts. It forms a long-lasting barrier that minimizes friction and protects against rust and corrosion.

Frequently Asked Questions (FAQ)

1. *What is AMTEC?*
 It is a Metal Treatment oil-less liquid, a form of chemical derived from hydrocarbon but not of hydrocarbon base.

2. *Who are AMTEC customers ?*
 All car users. Can also be used for a wide application ranging from automotive, industrial, marine, mining, military etc.

3. *How to use AMTEC ?*
 Just pour 380ml (one bottle) of AMTEC into the engine oil compartment and start the engine immediately. The vehicle can be stationary or you can drive it. After driving for 25,000km you just have to add 120ml to have the same benefit of AMTEC.

4. *How long will it take for AMTEC to work ?*
 Allow about 20 minutes for the engine to run and its effect is immediate.

5. *How does AMTEC work ?*
 It will penetrate into all metallic parts of the engine and seal up all the metal pores, uneven surfaces etc. It will then provide a thin layer of protection on to the metal. By doing so the surface of the engine becomes extremely smooth.

6. *Will changing my engine oil cause the loss of AMTEC?*
 You can do your regular engine oil change without worry of AMTEC being lost.

7. *What is the benefit of AMTEC ?*
 - Increase engine torque, which means more power
 - Less friction hence less resistance
 - Less resistance means more mileage
 - More mileage means more savings in petrol
 - Reduction in Noise
 - Reduction in Vibration

- Smoothness in driving
8. *How long after installation will I see the savings ?*
You should be able to see the savings immediately after using AMTEC as the reaction is immediate.
 9. *What are the realistic savings?*
Based on our test results, some cars are giving up to 30% extra mileage, we can say from 15 to 30% savings based on our own field trials.
 10. *Is AMTEC safe for use?*
It is very safe to use. It is odourless, non-toxic and biodegradable, however it cannot be consumed.
 11. *After installation, will AMTEC affect or damage my vehicle's performance ?*
It will never do that. It will enhance your engine performance.
 12. *How does AMTEC provide savings on fuel consumption and better engine power ?*
By means of increasing your engine efficiency.
 13. *Will the installation of AMTEC involve dismantling or alterations to my engine ?*
No. It's a 'DO IT YOURSELF' product. You just have to pour AMTEC into your engine oil compartment, no need to adjust or dismantle anything.
 14. *What type of vehicles is the AMTEC suitable for ?*
AMTEC is suitable for all types of petrol and diesel as well as NGV powered vehicles.
 15. *Are there any cases whereby after installation, no effects were seen?*
We have never come across any such case.
 16. *What is the AMTEC life span ?*
It can last up to 25000 km and just require topping up after that.
 17. *How much insurance liability anything happen? And how to claim ?*
There is no insurance liability, user have to prove their claim.
 18. *What differences are there in AMTEC compared to other products ?*
 - AMTEC is not oil, does not mix with oil.
 - AMTEC only bonds with metal, can be used in engine, clutch system, power steering etc.
 - It will use the oil as a media to get to all metal parts of the system and then provide a metal coating.
 - NO other product is like AMTEC in the market.

AMTEC Liquid Metal Treatment Brochure

GUARANTEE



Our No-nonsense Lubricants Warranty

"We will repair damaged equipment, or replace damaged equipment parts resulting from a failure due to defects of the AMTEC, as long as the treatment is used in accordance with your equipment manufacturer's and our recommendation."

It's more than just a warranty. It's a commitment.

• Meeting specifications DTD, Department of Trade and Industry 585-B (NATO CODE H515)

• and 5504-B (NATO CODE C535)

• and Ministry of Defence Specification DEF 2007-A (NATO CODE H-576)



AMTEC LIQUID METAL TREATMENT

APPLICATIONS

- Engine Crankcase
- Manual Transmission
- Automatic Transmission
- Differentials/transfer Case
- Power Steering



PRODUCT ORIGIN U.S.A.



PROFESSIONAL USE 100% CONCENTRATED



AMTEC LIQUID METAL TREATMENT



WHAT IS AMTEC ?

AMTEC is a clear, colourless light weight liquid, oil-less, 100% concentrated liquid metal treatment that is non-petroleum based, biodegradable, non-flammable, non-corrosive, non-toxic in the world.

AMTEC technology has "leap-frogged" current metal treatment technology and leads the way for anti-friction metal treatment into the third millennium.

AMTEC combines all the positive aspects of previous technology into its new technology without any of the harmful negative attributes associated with prevailing technology, including chlorinated paraffins.

SPECIFIC APPLICATIONS FOR AMTEC

Diesel & Petrol Engines:
Add 380ml of AMTEC to 3.8 litre engine oil or 10% of the engine oil content for the first 25,000 km and 120ml or 3% of the engine oil content for the subsequent treatments hereafter for maximum protection and performance.

- Add AMTEC every 1,000 hours of operation if the oil is not changed. Oil change and AMTEC intervals can be extended if the recommended time for oil analysis indicate conditions "normal."
- Transmission (Manual): Add 60ml per litre of fluid every 1,000 hours of operation or 48,000 KM.
- Transmission (Automatic): Add 30ml per litre of fluid every 1,000 hours of operation or 48,000 KM.
- Differentials: Add 30ml per litre of oil every 1,000 hours of operation or 48,000 KM.
- Power Steering: Add 30ml per litre of fluid every 1,000 hours of operation or 48,000 KM.



BENEFITS OF USING AMTEC

- Increases torque and power immediately
- Reduces rattling noise and vibration significantly
- Reduces fuel consumption (Test Proven) (Depending on terrain, load and engine condition)
- Reduces wear and tear and friction tremendously
- Lasts up to 25,000km
- Instant result guaranteed
- Economical, effective and safe
- Enjoy continuous sheer power and smooth driving
- Engine runs cooler
- Improves exhaust emission
- Improves start cold
- Increased thermal efficiency
- Minimizes damage due to heat seizure
- Extra protection against fuel-oil dilution
- Reduced friction of metal against metal
- Prolongs engine life due to less wear
- Resistant to extremes of temperature
- Provides immediate start-up lubrication
- Helps to protect the engine in the event of oil or coolant loss
- Compatible with all brands of oil including synthetics
- Reduce downtime, breakdowns

Try One Today With No Regrets!



Packing: 6 x 120ml

Packing: 23 x 380ml





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AMTEC UNIVERSAL

PRODUCT SPECIFICATION SHEET

AMTEC Non-Aerosol contains 100% Synthetic Metal Conditioner Non-Oily Molecular Bond. It is a multi-purpose non-aerosol synthetic lubricant.

AMTEC quickly penetrates surface rust and dirt to get deep into moving parts. It forms a long-lasting barrier that minimizes friction and protects against rust and corrosion.

BENEFITS

- Ozone Friendly contains No CFC's
- Superior to petroleum based products
- Reduces friction and wear for longer equipment life
- Provides protective lubricating barrier that prevents rust and corrosion
- Resists water-washout for superior outdoor performance
- Repels dirt, dust, grit and grime extending time between applications
- Clean won't stain most materials
- Contain AMTEC Synthetic Metal Treatment Technology

AUTOMOTIVE APPLICATIONS

Batteries, Bearings, Cables, Calipers, Chassis, Hinges, Hubs, Linkages, Locks, Pulleys, Pumps, Seat Regulators, Seat Tracks, Shocks, Springs.

HOUSEHOLD APPLICATIONS

Appliances, Faucets, Garage Doors, Hinges, Lawn Mowers, Locks, Sewing Machines, Shop Tools, Sliding Doors, Windows.

INDUSTRIAL APPLICATIONS

Bearings, Blowers, Cams, Chains, Chassis, Conveyors, Disc Brake Assemblies, Electric Motors, Fifth Wheels, Freezers, Paving Equipment, Pumps, Snow Plows/Blowers, Water Pumps, Valves.

MARINE APPLICATIONS

Bearings, Casters, Prop Shafts, Pulleys, Snaps, Trim Tabs, Winches, Zippers.

SPORTS AND RECREATION APPLICATIONS

ATV's Bicycle, Campers, Chains, Exercise Equipment, Go-Carts, Fishing Gear, Guns, Hunting Gear, In-Line Skates, Mopeds, Motorcycles, Rowing Machines, RV's, Skis/Bindings, Snow Mobiles, Trailers.

SKIN CONTACT

Immediately rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Water/mist/foam/CO2/dry powder "all acceptable".

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out.

UNUSUAL FIRE & EXPLOSION HAZARDS

Not flammable but combustible if exposed to external flame. No explosion hazard.

SPECIFIC HAZARDS

Fire or high combustible if exposed to external flame. No explosion hazard.

SPECIFIC HAZARDS

Fire or high temperature create; Toxic gases/vapors/fumes of Carbon Dioxide (CO₂), Carbon Monoxide (CO). Oxides of: Phosphorus.

PROTECTIVE MEASURES IN FIRE:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Evacuate the area. Wear suitable protective clothing gloves and eye/face protection. Wear suitable respiratory protection.

SPILL CLEAN-UP METHODS:

Ensure no materials enter drains or water course. Contain and absorb onto sand, earth or vermiculite. Place in marked container and dispose of as solid waste in accordance with local waste disposal regulations.

SECTION 7: HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid contact with skin, eyes and clothing. Wear gloves, overalls and eye protection. The work area should be adequately ventilated.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES:

At room temperature handle in a well-ventilated area. Exhaust ventilation must be used at elevated temperatures or where exposure to mist of vapors is possible.

RESPIRATORY EQUIPMENT:

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION:

Gloves butyl or nitrile rubber. Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used, consult your supplier. Gloves should be replaced immediately if signs of degradation are observed. The applicable European standard can be found in EN 374.

EYE PROTECTION:

Safety glasses goggles.

OTHER PROTECTION:

Provide eyewash station and safety shower.
Overalls.

HYGIENE MEASURES:

Eating, drinking and smoking should be prohibited in the work area. Store away from food and foodstuffs. Work in accordance with good industrial practice of the chemical industry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

AMOIL AMTEC	
APPEARANCE	Liquid
COLOUR	Colorless
ODOUR	None
SOLUBILITY	Immiscible with water
BOILING POINT (°C)	> 300°C @ 760 mmHg
VAPOUR PRESSURE	2.8x10E-7 mmHg @ 30°C 3.1 x 10E-5 mmHg @ 70°C
DECOMPOSITION TEMPERATURE	> 300°C
AUTOIGNITION TEMPERATURE	586°C
RELATIVE DENSITY	1.17 @ 20°C
VISCOSITY	35 cSt @ 25°C
FLASH POINT (°C)	>220°C

SECTION 10: STABILITY AND REACTIVITY

STABILITY

No particular stability concerns.

CONDITIONS TO AVOID

Hydrolysis in water produces Phenols

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Toxic gases/vapors/fumes of: Carbon Dioxide (CO₂), Carbon Monoxide (CO), Oxides of: Phosphorus

SECTION 11: TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 – LD 50 > 5000 mg/kg (oral rat)

TOXICOLOGY INFORMATION:

Possible risk of impaired fertility.

Possible risk of harm to the unborn child.

SKIN CONTACT

Non-irritant

Not a skin sensitizer

EYE CONTACT

Non irritant

HEALTH WARNINGS

Toxic to reproduction, Category 3

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICITY**

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

DEGRADABILITY:

Readily biodegradable.

WATER HAZARD CLASSIFICATION:

2. Self-classified.

SECTION 13: DISPOSAL CONSIDERATION**DISPOSAL METHODS:**

Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residue and due consideration should be given prior to disposal.

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME	: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID N.O.S.
CLASSIFICATION CODE (ADR)	: M6
UN NO. ROAD	: 3062
ADR CLASS NO.	: 9
ADR CLASS	: Class 9
ADR PACK GROUP	: III
HAZARD NO. (ADR)	: 90 Environmentally hazardous substances, miscellaneous dangerous substances.
HAZCHEM CODE	: 32
CEFIC TEC R NO.	: 90MG-III
RID PACK GROUP	: III
IMDG CLASS	: 9
EMS	: F-A, S-F
RID CLASS NO.	: 9

UN NO. SEA : 3062
IMDG PACK GR. : III
MARINE POLLUTANT : Marine pollutant
UN NO AIR : 3082
AIR PACK GR. : III
ICAO CLASS : 9

SECTION 15: REGULATORY INFORMATION

LABELLING

Harmful

Dangerous for the environment

RISK PHRASES

R62 Possible risk of impaired fertility

R63 Possible risk of harm to the unborn child

R51 /53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S36/37 Wear suitable protective clothing and gloves

S57 Use appropriate container to avoid environmental contamination

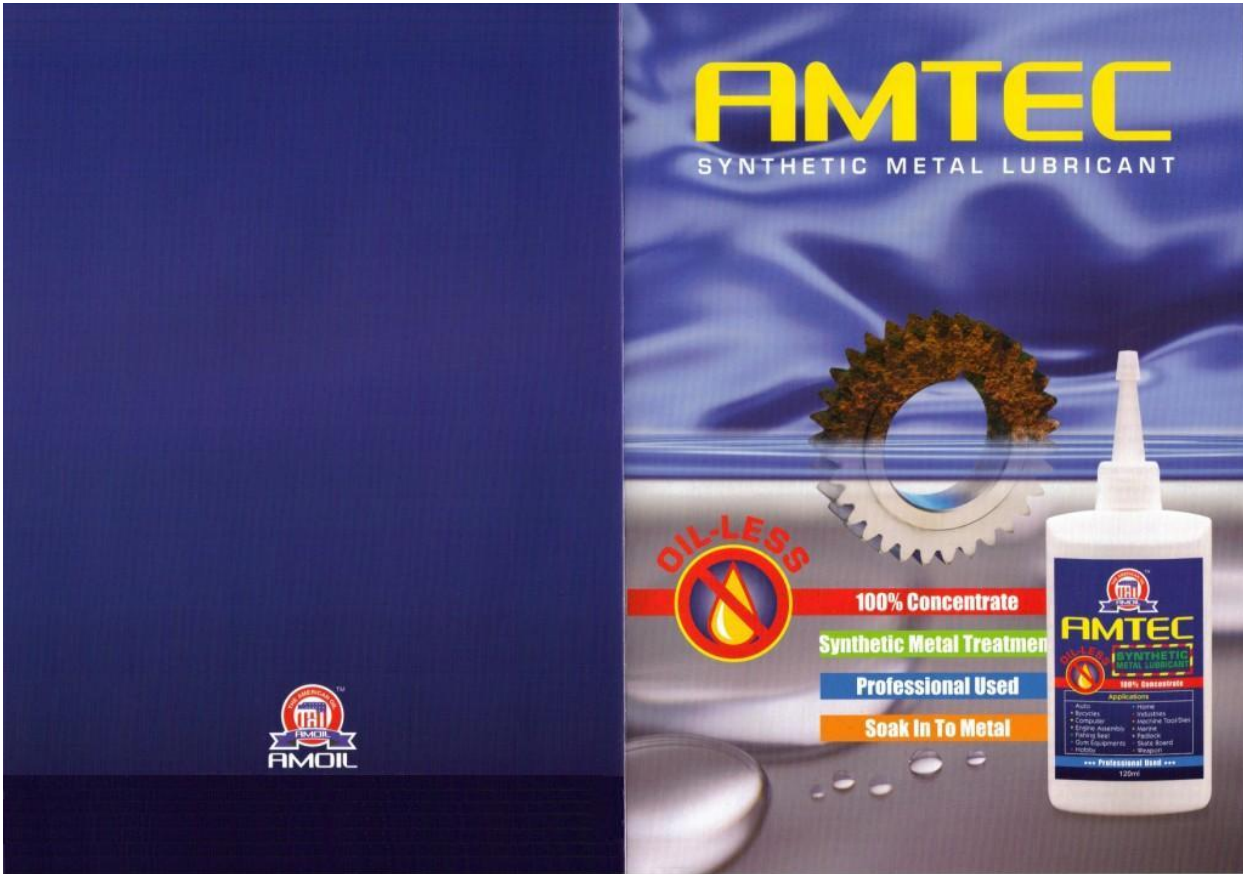
S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instruction/safety data sheets.

SECTION 16: OTHER INFORMATION

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of The Amoil Company's knowledge; however, The Amoil Company makes no warranty whatsoever, expressed or implied of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the result to be obtained from use thereof. The Amoil Company assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

AMTEC Universal Brochure



Welcome to AMTEC

THE ONLY 100% PURE CONCENTRATE SYNTHETIC METAL TREATMENT (SOAK INTO METAL)

WHAT IS AMTEC?

AMTEC is a clear, colourless light weight liquid, oil-less, 100% concentrate synthetic metal treatment lubricant that is non-petroleum based, biodegradable, non-flammable, non-corrosive, non-toxic in the world.

AMTEC technology has "leap-frogged" current metal treatment technology and leads the way for anti-friction metal treatment into the third millennium.

AMTEC combines all the positive aspects of previous technology into its new technology without any of the harmful negative attributes associated with prevailing technology, including chlorinated paraffins.



SPECIFIC APPLICATIONS FOR AMTEC INCLUDE, BUT ARE NOT LIMITED TO:

- Automotive and heavy duty truck motor, standard transmission, differential, hubs, wheel bearings, and automatic transmission and power steering for gasoline and diesel fuels.
- Industrial (mining, oil refining/drilling, paper making, steel mills, etc.).
- Railroads, including diesel engine oil, transmissions, gear boxes, wheel bearings, and track.
- Commercial marine, including diesel engines, transmissions, gear boxes, wrenches, and all friction applications.
- Rifle, handgun, and weapons cleaners.
- Military equipment, armour car.
- Food industry- processing transmission and equipment.
- Printing presses and bindery equipment.
- Drills, taps, saws, milling tools, and all metal-to-metal cutting tools.
- HVAC pumps, PEG oil and condenser coolant protection.
- CNC coolants (controls and kills bacteria, fungus and mold).
- Spray lubricants for chains (motorcycle & bicycle), chain saws, open gears, folding knives, hinges, padlock, fishing reel etc.
- Pre-assembly lube (AMTEC contains no metals that can confuse oil analysis readings and affords greater protection to new metal surfaces).

WHAT ARE THE APPLICATIONS FOR AMTEC

AMTEC is designed for all LPT environment - high Load, extreme Pressure, and high Temperature.

AMTEC is a 100% synthetic product derived from hydrocarbon compounds, therefore it is chemically neutral. By definition, a synthetic is a product where all the molecules are identical. This is in contrast to organic product that are comprised of many, differing molecules. Synthetics are superior to organics because no matter how much heat, pressure, and friction AMTEC (Synthetic) is exposed to, the molecules always return to their original state and maintain their original anti-friction function. Organics, on the other hand, breakdown under heat, pressure, and friction and form new compounds and their original function is altered.

A good illustration is to think of a synthetic as "Rubber Ball". You can take a hammer and smash "Rubber Ball" all you want, but it will eventually return to exactly the same form it was in before you smashed it. Now, think of an organic as crystal. If you smash a piece of crystal with a hammer, it can never return to its original state.



WHAT IS THE MIX RATIO FOR AMTEC

The mix ratio varies depending on the fluid into which AMTEC is mixed and the load requirements. Basically, AMTEC is mixed from a low of 0.1% in fuel to a high of 10% for-grease or lubricant heavy load environments. Beyond 12%, no appreciable benefit is achieved. Usually 0.5 - 1.5% provide acceptable performance in relatively simple systems with petroleum and synthetic base stocks. More complex formulations, where several components might interact with metal surfaces may require adjustment of several components or increase in AMTEC to 2 - 3%. These higher rate needed if controlled seawell is desired. Add 5% in synthetic base can be used to significant advantage dissolving other additive having only limited solubility in base oil.

MIX RATIO FOR AMTEC

Motor oil for gasoline and diesel engine	5%
- initial treatment	5%
- Each 10,000 km or every other oil change thereafter	3%
- 2-cycle engines	3%
- 4-cycle engines	5%

Lubricants for standard transmission, differentials, and hubs

Fluids for automatic transmission, power steering, and rack and pinion and hydraulic fluids	3%
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Refrigeration, Air-conditioners when recharging with refrigerant

Gasoline and diesel fuel	0.1% - 0.5%
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Radiator (Lubricate, rust and corrosion resistance)

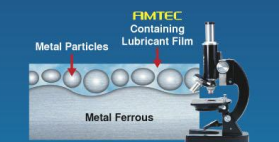
Boundary greases, and lubricants for heavy loads (mining, paper mills, commercial marine, oil exploration, railroads)	Up to 10%
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Note: In combustion engines you do not have to add additional AMTEC when you add oil between oil changes. AMTEC is not an additive but a metal treatment. The AMTEC is already in the metal and does not have to be replaced between oil changes.

AMTEC TYPICAL PROPERTIES

Appearance	Clear, colourless light weight liquid
Specific Gravity, 20/20 °C	1.166
Viscosity at 38 °C (cSt) mm ² /sec	28
Pour Point °C	-23
Flash Point (Cleveland open cup) °C	238

THE DIFFERENT YOU CAN SEE!



Packing: 6 x 120ml
Also available in 24 x 1 liter
20 liters plastic pail & 205 liters drum packing.

