





### DENOTES ENVIRONMENTALLY ACCEPTABLE PRODUCTS

For over 60 years, Turco products have led the chemical industry in the development of chemical cleaners, paint and carbon removers for the aircraft/aerospace industry. A number of these products have been outlined in this booklet. Many have been left out, due to space limitations. Your local Elf Atochem representative will be pleased to provide you with additional technical information on products of interest to you.



### DENOTES NEW PRODUCT/ APPLICATION IN THE TURCO RANGE



## TURCO® AIRCRAFT EXTERIOR CLEANERS

PRODUCT	DESCRIPTION	USE PARAMETERS
 <b>TURCO 5948A</b> AIRFRAME & ENGINE MFGS APPROVED CAT NO. 15300	Heavy duty, water based alkaline cleaner for painted and unpainted surfaces. Removes dirt, greases, synthetic oil films, carbon and exhaust residue from aircraft and engines. Non flammable. Will not craze Plexiglass.	For heavy soils, add 1 part of concentrate to 3-9 parts of water. For light soils, add 1 part of concentrate to 30 parts of water. For foam generators, add 1 part concentrate to 20-40 parts of water. For interior cleaning, add 1 part of concentrate to 20-100 parts of water. Rinse with high pressure water or by hand for interiors.
<b>TURCO AIR TEC 23</b> MIL-C-87936A CAT NO. 15007	Water based exterior cleaner.	Use as recommended by specification.
 <b>TURCO 5948AW/W</b> CAT NO. 16091	Water based, yellow, alkaline solution formulated to effectively clean jet soils such as synthetic oil films, grease, carbon and exhaust residues from aircraft surfaces by spray or mopping methods. <b>THIS PRODUCT WILL RESTORE PAINT LUSTRE AS IT CONTAINS HIGHLY EFFECTIVE WAXES.</b>	Dilute product from 1 part product to 5-10 parts water and apply by spray, mop or doodlebug. Allow the product to dwell until soils are softened. Agitate sufficiently to remove soils and mop clean with cold water. <b>CONTAINS NO PHOSPHATE</b>

## TURCO® VISCOUS SPRAY/FLOW-ON PAINT REMOVERS


PRODUCT	DESCRIPTION	USE PARAMETERS
<b>TURCO 5351</b> APPROVED BY ALL MAJOR AIRCRAFT MFGS. AND MILITARY CAT NO. 15282	Phenolic, chromated, neutral for epoxy and polyurethane paints. Contains chlorinated hydrocarbons. Non-flammable.	Apply as received by means of non-atomising spray or flow-on methods. Allow sufficient time for remover to work. Agitate surfaces with a stiff bristled brush to ensure complete removal. Rinse with high pressure, high volume, water or steam.
 <b>TURCO 6813</b> PATENT PENDING MIL-R-25134B CORROSIONLIMITS CAT NO. 15887	Water based! Free of chlorinated solvents. Removes most epoxy and polyurethane systems. Safe on all aircraft metals, including high strength steel and magnesium.	Somewhat slower to react than methylene chloride based strippers. Use as received. Apply by non-atomising spray, brush or flow-on methods. Allow sufficient time for remover to work. Agitate surface with stiff bristled brush. Rinse with high pressure, high volume water or steam.
 <b>TURCO 6840S</b> MIL-R-25134B C.S.D.#1 D6-17487 MIL-R-81294C (effect on metals) CAT NO. 16102	Water based Environmentally Advantaged paint remover capable of removing multiple layers of paint such as baked enamels, lacquers, varnish, synthetic enamels, Koroflex, poly-sulfides, zinc chromate primers and polyurethanes. Does <b>NOT</b> contain phenols, chromates, acids, chlorinated hydrocarbons or heavy metals.	Safe on aluminium, magnesium, cadmium plated steels and other ferrous metals. Apply by brush or non-atomising spray an even coat, allow sufficient dwell time for the remover to penetrate the paint then agitate with a stiff bristled brush. Allow the remover to again dwell on the more difficult areas, brush then rinse. Turco 6840S remains active for hours. Best results are obtained at hangar temps. of 30°C to 40°C.

## TURCO® POWER SPRAY CABINET CLEANERS


PRODUCT	DESCRIPTION	USE PARAMETERS
 <b>TURCO AVIATION</b> CAT NO. 15020	Powdered heavy duty alkaline spray wash compound safe on all metals. Capable of operating effectively at high temps. (91°C) and pressures (800 psi) without foaming. Can also be used in heavily agitated dip tank. Free rinsing.	Dissolve 7-30 grams powder per litre of solution. Adjust temperature and pressure to achieve desired results in time allowed, generally 5-15 minutes. Rinse with warm to ambient water.
<b>TURCO SPRAYEZE</b> CAT No. 15159	Turco Sprayeze is a high performance medium alkaline spray washing compound formulated to remove heavy loads of oil, grease, drawing lubricants and general soils from auto parts and metal components during manufacture.	<b>Mixing:</b> Add Turco Sprayeze to warm, circulating water at the ratio of 12-18 g/L. Clean parts at 80°C to 90°C for 1-3 minutes at a spray pressure of 30 to 50 psi.
 <b>TURCO SPRAYEZE R</b> CATNo.15161	Heavy duty spray and immersion cleaner being chromate-free for ferrous and non-ferrous alloys formulated to remove drawing lubes, lube oil, marking inks and shop soils from ferrous and non-ferrous alloys.	Add Turco Sprayeze R to warm, circulating water at the ratio of 8-16 g/L. Clean parts at 60°C to 70°C 30 seconds to 2 minutes at a spray pressure of 20 to 30 psi.




## TURCO® COLD TANK - DIPHASE PAINT AND CARBON REMOVERS

PRODUCT	DESCRIPTION	USE PARAMETERS
 <b>TURCO TRANSPO</b> CAT NO. 15205	Chromated, phenolic, chlorinated solvent based product. Removes greases, paint, varnishes, ethyl stains, carbon and general soils from engines and aircraft parts. Safe on aluminium, zinc, copper, pot metal, titanium and ferrous alloys. Non-flammable.	Use as received. Immerse parts below seal level. Follow Technical Data concerning seal and tank maintenance. Rinse parts with high pressure cold water, steam or solvent. Ideal cleaner for internal combustion and/or jet engine parts.
<b>TURCO 9045-6</b> CAT NO. 15329	Unique water-based carbon remover used to clean engine blocks, pistons, injectors, etc. An effective carbon remover for engine overhaul.	Preclean parts to increase efficiency and prolong tank life. Immerse parts to be cleaned for up to 4 hours, at a temperature up to 52°C. <b>DO NOT OVERHEAT.</b> Air, mechanical or ultrasonic agitation improves efficiency. Rinse parts with high pressure water or steam.
<b>TURCO 5351 THIN</b> MIL-R-83936 CAT NO. 15283	Paint remover, contains chlorinated solvent, chromate and phenols. Removes epoxy, polyurethane and other catalysed paints from ferrous and non-ferrous surfaces. Does not contain free acidic or alkaline constituents. Safe on high strength steels.	Use as received. Immerse parts below seal level. Rinse with high pressure water or steam.




## TURCO® ACID BASE CLEANERS/ETCHANTS

PRODUCT	DESCRIPTION	USE PARAMETERS
 <b>TURCO W.O. #1</b> CAT NO. 15366	Liquid, cleans and removes corrosion from ferrous and non-ferrous alloys. Increases paint adhesion on aluminium alloys. Not for use on high strength steel.	<b>Dip:</b> Add 1 part cleaner to 3 to 4 parts water. Operate from room temperature to 60°C. <b>Spray:</b> add 1 part cleaner to 3 to 4 parts of water, at room temperature. <b>Handwipe:</b> add 1 part cleaner to 3 to 6 parts water.
<b>TURCO METAL GLO#6</b> MIL-C-38334 CAT NO. 15109	Liquid, free rinsing aircraft brightener and corrosion remover for use prior to painting.	Use from full strength to 1:1 with water. Apply from the bottom to the top using a non-atomising spray. Allow to dwell from 5 to 20 mins. Agitate, then rinse with warm to ambient water, bottom to top.
<b>TURCO ALBRITE HEAVY</b> CAT NO. 15010	Concentrated, heavy duty, tank type aluminium etchant and corrosion remover. NB: Contains hydrofluoric acid.	Dilute 1 part with 3-10 parts water. Immerse aluminium parts for 5-10 minutes at ambient temp. Rinse with warm to ambient water, preferably spray followed by dip.

## TURCO® HOT TANK DIPHASE PAINT & CARBON REMOVERS

PRODUCT	DESCRIPTION	USE PARAMETERS
 <b>TURCO 5668</b> MIL-R-83936B CAT No. 15288	Alkaline base free of chlorinated solvents, chromate and phenols. Removes polyurethanes, acrylics, epoxies, chromated primers. PCR 1560M, and aluminised silicone epoxy coatings. Safe on all metals.	Place entire contents of container into tank and heat to 71°C to 82°C. To extend solution life, precleaning of heavily soiled parts is recommended. Rinse parts with high pressure warm water or steam.
<b>TURCO 6453</b> CAT NO. 15313	Anti-gall compound remover free of chromate and phenols. Contains water seal. Removes epoxies, polyurethanes, Nubelon, Nupon and similar coatings from aluminium, magnesium, cadmium as well as ferrous and other-nonferrous alloys.	Place entire contents of container into tank and heat to 60°C to 66°C. Immerse parts below seal level. Rinse with high pressure warm water or air and water rinse.

## TURCO® HOT TANK ALKALINE CLEANERS

PRODUCT	DESCRIPTION	USE PARAMETERS
 <b>TURCO 4181</b> CAT NO. 15252	Powder, free of phenols, chromate and solvents. Removes rust, paints, light scale, greases and carbon residues from ferrous and chrome nickel alloys as well as titanium when used as directed. Not for use on aluminium. Non-flammable.	Add 45-360 grams/litre of solution. Operate tank from 77°C to 91°C. Rinse with warm to hot water. A pressure rinse over the T4181 tank conserves material.
 <b>TURCO VITROKLENE</b> CAT NO. 15361	Powder, free of chromate, phenols and phosphates. Removes grease, lube oils and engine soils from ferrous alloys. Not for use on aluminium, zinc, cadmium, or other reactive alloys. Leaves water break free surface.	Add powder at the ratio of 60 to 75 grams/litre of solution. Operate tank from 93°C to 100°C, with air or mechanical agitation. Rinse with spray or overflow hot water upon removal from tank.
<b>TURCO 4215 S</b> CAT NO. 15256	Non-silicated alkaline cleaner for immersion and spray systems. Suitable for use on steels, titanium, nickel, copper and aluminium alloys at operating temperatures of 60-80 deg Celsius.	<b>Spray</b> 7-15g/L at 60°C to 80°C and 20-30 psi for 1-2mins. <b>Immersion</b> 30-35 g/L, 60°C to 80°C, contact 5-10 mins. <b>Ultrasonics</b> 3-12g/L, max 43°C, immerse till clean.
 <b>TURCO AVIATION</b> CAT NO. 15020	Free rinsing, hot spray and immersion cleaner for aluminium and other metals. Removes oils, shop soils, carbon and grease from aircraft and engine components.	Dissolve 8-60 grams/litre of solution. Operate at 71°C to 88°C for 30 seconds to 30 minutes depending on use: spray, immersion, ultrasonic, mechanical or air agitation. Rinse with overflowing dip rinse or pressure spray.



## TURCO® EMULSION CLEANERS



PRODUCT	DESCRIPTION	USE PARAMETERS
<b>TURCO DL CLEANER</b> CAT NO. 15913	Clear, green, non-flammable, citral based degreaser. free of petroleum distillates, phosphates, caustics, or acids.	Can be used at full strength in extremely heavily soiled applications, otherwise may be diluted with up to 32 parts of water depending on conditions. Can be sprayed, brushed, or used in a dip application. Rinse with water.
<b>TURCO 5884</b> CAT NO. 15297	Liquid, concentrate, for inplace cleaning of jet engine compressor blades, vanes and rotor components. Noncorrosive to jet engine metals. Ash free. Use special inplace cleaning rig and hook up, cleaning and engine restart procedures per engine manufacturer's instructions.	Add 1 part of Turco 5884 to 4 parts of distilled deionised or drinking quality water. Follow procedures outlined in Technical Data and engine manufacturer's instructions.

## TURCO® SOLVENTS



PRODUCT	DESCRIPTION	USE PARAMETERS
<b>TURCO SOLV</b> CAT NO. 15185	Liquid blend of chlorinated and aliphatic petroleum solvents. Used to clean electrical components and wiring harness.	Use as received. Apply by dip, wipe or non-atomising spray method. Use with adequate ventilation, away from welding arcs, torches and open flames.
<b>TURCO 657</b> CAT NO. 15315	Liquid, chlorinated hydrocarbon, fast evaporating, residue-free solvent. For cleaning critical parts, bearings, electronic components and instruments. Also removes oils, greases, paint residues and rust preventatives. Ideal for cleaning integral fuel tanks prior to resealing.	Apply by means of saturated cloth or nonatomizing spray. Wipe surface in normal manner, rotating cloth frequently to avoid redeposition of soils. Nonflammable.
<b>TURCO 4460</b> CAT NO. 15266	Used in place of MEK where toxicity or high composite vapour pressure precludes using MEK.	When used to replace MEK in a process, use in same manner as MEK.
<b>TURCO 6709</b> CAT NO. T.B.A.	Wipe solvent which contains <b>NO HAPs</b> . Composite vapour pressure less than 45mm Hg at 20°C.	Spray or wipe onto surface to be cleaned. Wipe dry with a clean, lint free cloth or mop.
<b>TURCO QANSOLV</b> CAT NO. 15973	Liquid blend of aliphatic hydrocarbons and chlorinated hydrocarbons. Does not contain methylene chloride. Excellent bearing cleaner and general purpose solvent.	Use as supplied by hand wipe or non-atomising spray methods.

## TURCO® SPECIALTY COMPOUNDS



PRODUCT	DESCRIPTION	USE PARAMETERS
<b>TURCO LIQUID ATD</b> CAT NO. 15104	Liquid concentrated aircraft toilet deodorant. Free of formaldehyde, chromate, heavy metals and phenols. Pleasant odour, blue colour in solution.	Dilute concentrate at the ratio of 4 mls/litre of water. Use of proportioner or other suitable metering is recommended for bulk systems.
<b>TURCOAT ACCELAGOLD</b> MIL-C-81706 + MIL-C-5541B CAT NO. 15231	Powder, for aluminium conversion coating. Produces golden iridescent chemical film for corrosion resistance, paint adhesion and low electrical resistance.	Used at between 6 and 40 g/L. Refer to the technical data sheet for specific instructions.
<b>TURCOAT ALUMIGOLD</b> MIL-C-81706 + MIL-C-5541B CAT NO. 15215	Powder, cyanide-free, aluminium conversion coating. Produces golden iridescent coating for corrosion resistance and paint adhesion.	Apply by spray or immersion methods. For spray systems, add powder at the ratio of 8 to 12 g/L of water. Operate solution from 21°C to 32°C for 15 seconds to 5 minutes. Use same concentration for immersion systems at 24°C to 30°C. Rinse with cold water.
<b>TURCO 1495-X</b> CAT NO. 15234	Liquid viscous, exterior aircraft polish. Removes oxide films and corrosion products from aluminium surfaces. Leaves high lustre. Safe on high strength steel, non-ferrous alloys and aluminium.	Remove heavy surface soils, oils and exhaust deposits. Apply polish sparingly with a piece of cloth, towelling or paint brush. Polish with power buffer or by hand. Change polishing head or cloth frequently.

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