







ABOUT US



Pentacorp International is a company based out of Dubai, U.A.E with associate partners situated globally. The PENTACORP Group holds a wide portfolio specializing in metals trading, minerals trading and allied products, energy, commodities, food stuff and raw food material, healthcare and diagnostic equipment, beverages and farming equipment. We bering together professionals with diverse industry experiences and global connections as well as clients. We have developed a unique boutique service to our discerning clients with a special vertical integration, starting with a state-of-the-art sourcing and QC working with factories around the world, with consultant technologists, engineers, , logistics specialists and finally a highly talented and equipped outsources sales support team providing nearly 24/7/365 services. Pentacorp's success is in integrating our expertise in to maintaining an extremely lean operation with all outsourced services, but focused on high value contracts. This enables us to offer highly competitive prices, terms and delivery time.

MISSION

Specialise in providing cutting-edge products and sourcing solutions across a wide portfolio of commodities, and emerge as a premier destination for clients from across the globe who seek products from leading brands or custom applications.

VISION

Become a global leader in the general trading of a diverse range of goods.

VALUES

- Integrity
- Commitment to customers
- Upholding transparency in sourcing
- Dependability Now and always
- Environmentally-conscious
- Respect for our people
- Efficient utilization of resources



IOUR NETWORK



PRODUCTS & PORTFOLIO

METALS & MINERALS RAW M	IATERIALS			
CHEMICALS & COMPOSITES BEVERAGES-ALCOHOLIC & NON-ALCOHOLIC				
AGRICULTURE – MACHINERY EQUIPMENTS				
HEALTHCARE- (DIAGNOSTIC/PROTECTIVE EQUIPMENT&APPLIANCES)				
COMMODITIES METALS FOODSTUFF AGRICULTURE HEALTH CARE				
GREEN ENERGY WINE & SPIRI	TS FISH MEAL & FISH OIL			

SERVICES

GLOBAL PRODUCT SOURCING PROCUREMENT & LOGISTICS TECHNOLOGY CONSULTING CUSTOM ENGINEERED SOLUTIONS URBAN FARMING SOLUTIONS GREEN ENERGY & CARBON CREDIT CONSULTING



IMETALS & MINERALS

- COPPER
- ALUMINIUM TIN & ZINC
- LEAD NICKEL
- MAGNESIUM



PENTACORP

COPPER

Pentacorp specialises in supply of Copper in various forms such as but not limited to copper cathodes, concentrates, Sheets, Round bars, Square bars as well as flat bars. These are sourced by our expert team directly from heavily vetted. mines and manufacturing units which also enable us to offer special grade profiles as per client requirements LME & NON LME CATHODE STANDARDS- ASTM B 115 GRADE-1 DIN EN 1978, CU-KATH-1

INGOTS

1

The main models are as follows: AL99.90, AL99.85, AL99.70A, AL99.70, AL99.60, AL99.50, AL99.00, Chemical Composition:Al Weight: 20/25kg Al (Min): 99%-99.9%

ALUMINIUM

Leveraging our years of experience in aluminium products, Pentacorp has emerged as a specialist supplier for a diverse range of aluminum products / formats such as Billets, Ingots, Coils, Extrusions, Circles/ Castings/ Plates and Sheets. Fabricated using superior quality aluminum from the best factories around the world, these products offer excellent resistance to varied temperature applications as well as enhanced durability







IFISH MEAL

Fish meal is a commercial product mostly made from fish that are not used for human consumption; fishmeal is generally used to feed farm animals in an agricultural setting. Because it is calorically dense and cheap to produce, fishmeal has played a critical role in the growth of factory farms and the number of farm animals it is possible to breed and feed.



Fish Meal process

Fishmeal is made by cooking, pressing, drying, and grinding of fish or fish waste into a solid. Most of the water and some or all of the oil is removed. Four or five tons of fish are needed to manufacture one tone of dry fishmeal.

Of the several ways of making fishmeal from raw fish, the simplest is to let the fish dry out in the sun before grinding and pressing. This method is still used in some parts of the world where processing plants are not available, but the end product is poor quality in comparison with ones made by modern methods.



Cooking: The fish are moved through a commercial cooker — a long, steam-jacketed cylinder — by a screw conveyor. This is a critical stage in preparing the fishmeal, as incomplete cooking means the liquid from the fish cannot be pressed out satisfactorily and overcooking makes the material too soft for pressing. No drying occurs in the cooking stage.

Pressing: The cooked fish is compressed inside a perforated tube, expelling some of its liquids, leaving "press cake". Water content is reduced from 70% to about 50% and oil down to 4%.

Drying: The press cake is dried by tumbling inside a heated drum. Under-drying may result in the growth of molds or bacteria; over-drying can cause scorching and reduction in the meal's nutritional value.

Two alternative methods of drying are used:

• Direct: Very hot air at a temperature of 500 $^{\circ}$ C (932 $^{\circ}$ F) is passed over the material as it is tumbled rapidly in a cylindrical drum. While quicker, heat damage is much more likely if the process is not carefully controlled.

• Indirect: The meal is tumbled inside a cylinder containing steam-heated discs.

Grinding: The dried meal is ground to remove any lumps or bone particles.





Nutrient composition

Any complete diet must contain some protein, but the nutritional value of the protein relates directly to its amino acid composition and digestibility. High-quality fishmeal normally contains between 60% and 72% crude protein by weight. Typical diets for fish may contain from 32% to 45% total protein by weight.



FISH OIL

Fish oil is oil derived from the tissues of oily fish. Fish oils contain the omega-3 fatty acids eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), precursors of certain eicosanoids that are known to reduce inflammation in the body and improve hypertriglyceridemia. There has been a great deal of controversy in recent years about the role of fish oil in cardiovascular disease, with recent meta-analyses reaching different conclusions about its potential impact. The most promising evidence supports supplementation for prevention of cardiac death.

Fish oil and omega-3 fatty acids have also been studied in a wide variety of other conditions such as clinical depression, anxiety, cancer and macular degeneration, yet their benefit in these conditions has also not been verified.

The fish used as sources do not actually produce omega-3 fatty acids, but instead accumulate them by consuming either microalgae or prey fish that have accumulated omega-3 fatty acids. Fatty predatory fish like sharks, swordfish, tilefish, and albacore tuna may be high in omega-3 fatty acids but, due to their position at the top of the food chain, these species may also accumulate toxic substances through bio magnification. For this reason, the United States Environmental Protection Agency recommends limiting consumption (especially for women of childbearing age) of certain (predatory) fish species (e.g. albacore tuna, shark, king mackerel, tilefish and swordfish) due to high levels of the toxic contaminant mercury. Dioxins, PCBs and chlordane, as well as other chlorinated cyclodine insecticides are also present. Fish oil is used in aquaculture feed, in particular for feeding farmed salmon.

Uses

Often marketed and sold for consumption as part of the diet or in dietary supplements in contemporary societies, fish oils also have found roles in external use, as emollients or as general ointments as well as in body art or for alleged insulation against cold temperatures

Nutritional details

The most widely available dietary source of EPA and DHA is cold-water oily fish, such as salmon, herring, mackerel, anchovies, and sardines. Oils from these fish have a profile of around seven times as much omega-3 oils as omega-6 oils. Other oily fish, such as tuna, also contain omega-3 in somewhat lesser amounts. Although fish is a dietary source of omega-3 oils, fish do not synthesize them; they obtain them from the algae(microalgae in particular) or plankton in their diets.

Fish species	Temperatore (°C)	Time (min)	Observations	Reference
Scomber scombrus	95-100	10-20	Extraction yield of 18.7% Quality within standard values	Bako, Umogbai and Obetta (2014)
Cyprinus carpio	95-100	30	Quality within standard values	Crexi et al. (2010)
By-products of Oncorbynchus gorbuscha	95	15	Good source of DHA and EPA, even after the by-products have been stored for four days	Wu and Bechtel (2008)
Sogffarmen capistratus	+	÷	Yield of 40 % PUFA content of 15.74 %, i.e. lower than in other methods	Immanuel, Sathasivan, Shankar, Peter and Palavesam (2009)
By-products of Merluceus capensis, Merluceus paradosas, Hoplostethus atlanticus, Salmo atlar, Donilicus gigas Acipenseridae	(14)	÷	The method was not adequate to extract hake or squid oils, due to emulsion formation	Rubio et al. (2012)
Acipenseridae	85	60	Yield of 52.51 %, i.e. low compared to other methods Oxidative stability affected	Hao et al. (2015)
Oreochromis niloticus, Pseudoplatystoma corruccaus x P fasciatum	40	180	The oil obtained showed an adequate chemical quality	Menegazzo et al. (2014)
Sardinella longiceps	75	30	Yield of 8.3% compared to the weight of the wet tissue Better quality compared to the oil extracted with solvents	Chakraborty and Joseph (2015x, 2015b)
Theragra chalcogramma	50-60	15-30	The highest yield was obtained at 60 °C during 30 min	Ribeiro, Oliveira, Bechtel and Prentice (2013)



CAVIAR

Caviar (also known as caviare; from Persian is a food consisting of salt-cured roe of the family Acipenseridae. Caviar is considered a delicacy and is eaten as a garnish or a spread. Traditionally, the term caviar refers only to roe from wild sturgeon in the Caspian Sea and Black Sea (Beluga, Ossetra, and Sevruga caviars). Depending on the country, caviar may also be used to describe the roe of other species of sturgeon or other fish such as salmon, steelhead, trout, lumpfish, whitefish, or carp

The roe can be "fresh" (non-pasteurized) or pasteurized, with pasteurization reducing its culinary and economic value.

Varieties

The main types of caviar are Beluga, Sterlet, Kaluga hybrid, American osetra, Ossetra, Siberian sturgeon and Sevruga. The rarest and costliest is from beluga sturgeon that swim in the Caspian Sea, which is bordered by Iran, Kazakhstan, Russia, Turkmenistan, and Azerbaijan. Wild caviar production was suspended in Russia between 2008 and 2011 to allow wild stocks to replenish. Azerbaijan and Iran also allow the fishing of sturgeon off their coasts. Beluga caviar is prized for its soft, extremely large (pea-size) eggs. It can range in color from pale silver-gray to black. It is followed by the small golden sterlet caviar which is rare and was once reserved for Russian, Iranian and Austrian royalty. Next in quality is the medium-sized, light brown to rich brown Ossetra, also known as Russian caviar. Others in the quality ranking are the gray sevruga caviar, the Chinese Kaluga caviar, and the American osetra. The Siberian variety with black beads is similar to sevruga and is popular because of its reduced **4** years) harvest period, but it has a higher brine content than other kinds. The Chinese Kaluga hybrid varies in color from dark gray to light golden green and is a close cousin of beluga caviar.

Extraction

Commercial caviar production historically involved stunning the fish and extracting the ovaries. Another method of extracting caviar is by performing a caesarean section, which allows the female to continue producing roe. Other farmers use a process called "stripping", which extracts the caviar from the fish via a small incision made along the urogenital muscle when the fish is deemed to be ready to be processed. An ultrasound is used to determine the correct timing. Removing the caviar by massage may yield higher quality and a more sustainable source

Preparation follows a sequence that has not significantly changed over the last century. First, the ovaries are removed from a sedated female sturgeon and passed through a sieve to remove the membrane. Freed roes are rinsed to wash away impurities. Roes are now ready to become caviar by adding a precise amount of salt for taste and preservation. The fresh product is tasted and graded according to quality. Finally, the golden eggs are packed into lacquer-lined tins that will be further processed or sold directly to customers

Storage and Nutritional Information

Caviar is extremely perishable and must be kept refrigerated until consumption.

Pasteurized caviar has a slightly different texture. It is less perishable and may not require refrigeration before opening.

Pressed caviar is composed of damaged or fragile eggs and can be a combination of several different roes. It is specially treated, salted, and pressed.

A spoonful of caviar supplies the adult daily requirement of vitamin B12, it is also high in cholesterol and salt. 1 tablespoon (16 g) of caviar contains:

Energy: 42 calories	Protein: 3.94 g
Fat: 2.86 g	Sodium: 240 mg
Carbohydrates: 0.64 g	Cholesterol: 94 mg
Fibers: 0 g	Zinc: 12.18 mg



IHEALTH CARE

PENTA-CARE, a division of the prestigious PENTACORP Group, headquartered in Dubai, has established its global presence in multiple trading domains including metals, materials, commodities, renewable energy, e-mobility and healthcare. Our healthcare division prides itself in sourcing cutting-edge equipment from leading brands for use in hospitals, diagnostics and laboratories, as well as a myriad range of generic and emergency pharmaceutical drugs, and recently, medicines to treat COVID symptoms too.

Our Philosophy

PENTA-CARE collaborates with renowned manufacturers of medical equipment and pharmaceuticals to ensure the highest standards across their product portfolio. Our team of experts include pharma specialists, sourcing engineers and biomedical engineers who assure our clients of reliability through genuine, superior quality brands. All test certificates are validated by international testing laboratories. Every piece of equipment is secured with industry-leading warranty terms, and online or on-site technical support is provided wherever required.

What We Offer

PENTACARE supplies a wide range of equipment from various brands of international repute. From regular beds and ICU beds that offer a full range of features to meet demanding conditions, to ventilators for invasive or non-invasive use as well as for transportation in ambulances, helicopters of emergency flights, we can provide any kind of equipment that may be used in healthcare and hospital industries.

Invasive and Non-Invasive Ventilators

PENTACARE thoroughly understands the significance of ventilators in critical care and provides invasive and non-invasive ventilators equipped with some of the most advanced features, for various emergency requirements at any hospital. They also offer transportable ventilators for use or for movement via ambulances, helicopters or emergency flights.

ICU Beds

PENTACARE provides beds for regular use in various wards of a hospital as well as specialized ICU beds with multiple in-built features suited to emergency care. ICU beds can be electrically controlled, converted to cardiac chair or Trendelenburg positions, have in-built IV hooks for ease in mobility and often have in-built nurse controls.

Dry Flourescence Immunoassay Analyser (Portable)

PENTACARE sources a superior range of dry fluorescence immunoassay analysers that provide quantitative, quick and highly sensitive results when it comes to testing of blood, blood plasma or other samples. They make for the perfect portable tool in small labs and emergency facilities where a range of diagnostic markers to detect infections, inflammations, diabetes, thyroid and vitamin deficiencies, can be reliably evaluated in a short span of time.

COVID Medicines

PENTACARE keeps up with the times by easily procuring medicines used in hospitals and emergency rooms to treat COVID symptoms and any related complications.

Laboratory and Testing Equipment

PENTACARE specialises in complete diagnostic equipment used in laboratories and medical testing. Recently, we have even begun offering a full range of rapid and RT-PCT test kits for COVID and SARS detection in Asia and Europe.

Generic Medicines and Emergency Medicines

PENTACARE collaborates with reputed pharma partners in Asia and the Indian subcontinent to offer a full range of over 400 generic drugs for hospital and clinic use. We even procure various kinds of emergency medicines too.

Essential Healthcare PPE

PENTACARE PPE products consists of a full range of masks from 3-ply, 4-ply, FFP2 and FFP3 to N95 and KN95, nitrile gloves and nitrile suits, full PPE kits, head covers, knee and show covers, face shields and eye covers for use in COVID treatment or regular hospital environments.

Medical and Operation Theater Equipments

the second se	the second se		
ANESTHESIA MACHINE			
ANESTHESIA CART	SEQUENTIAL COMPRESSION DEVICE	SURGICAL LIGHTS	PREP TABLE
ANESTHESIA CIRCUITS	SURGICAL TOURNIQUET	SURGICAL MICROSCOPE	UTILITY CART
ANESTHESIA MONITOR	NERVE STIMULATOR	AED / DEFIBRILLATOR	STOOLS (ROLLING, STEP, ETC.)
LARYNGEAL MASK AIRWAYS	BLOOD WARMER	VITAL SIGNS MONITOR	LINEN HAMPER
SURGICAL TABLE	WARMING AIR UNITS	EKG MACHINE	IV ACCESSORIES
PATIENT STRETCHER	CENTRAL GAS AND SUCTION	VIDEO MONITORS AND CAMERAS	NEEDLE COUNTERS
PATIENT STIRRUPS	DESK / COMPUTER	C-ARMS	KICK BUCKETS
POSITIONING PILLOWS	MEDICAL CABINETRY	ULTRASOUND MACHINES	BIOHAZARD WASTE CANS
RESTRAINT STRAPS	BACK INSTRUMENT TABLE	ENDOSCOPY TOWER	SPONGE COUNTER UNITS / BAGS
PATIENT POSITIONERS	EXCHANGE CART	LARYNGOSCOPES	SMOKE EVACUATOR
SURGICAL HEADLIGHT	HAND TABLE	ELECTROSURGICAL UNIT	MAYO STAND(S)

CHEMICALS

Acid Degrreaser

Cleaner-Degreaser – A cleaning agent able to effectively remove dirt and light greasy soils; usually with a pH level of 7 – 10. Degreaser – A cleaning agent able to effectively remove greasy soils; generally with a pH level of 7 or above. ... Neutral – 7 on the pH scale, making it neither **acidic** nor alkaline

Alkaline Degreaser

Alkaline Degreaser is a liquid **alkaline** decarboniser, **degreaser** and rust remover for motor vehicle and heavy equipment industry. **Alkaline Degreaser** also has the quality to remove green slime on concrete and buildings.

Pickling Solutions for Decorative Finishing Applications

Pickling provides thorough cleaning and activation of metal surfaces by removing the oxide layer of the material, which results in a pure metal surface, free of contaminants and oxides. Technic supplies a wide range of pickling solutions for decorative metal finishing applications for brass, steel, zinc die cast, leaded brass, beryllium copper, aluminum, nickel, silver, tin, lead and zamak.

Fluxes

The main purpose of the **flux** is to prepare the metal surfaces for soldering by cleaning and removing any oxides and impurities. Oxides are formed when metal is exposed to air and may prevent the formation of good solder joints.

Passivation

OH

As a technique, passivation is the use of a light coat of a protective material, such as metal oxide, to create a shell against corrosion. Passivation can occur only in certain conditions, and is used in microelectronics to enhance silicon

Hexavalent based passivations

Hexavalent based passivations (CrVI) exhibit a number of desirable characteristics . They will **passivate** the surface of zinc and zinc alloy electrodeposits with a thin film that provides end-user benefits such as color, abrasion resistance and increased corrosion protection.

Trivalent chromium passivation

Trivalent chromium passivation is used after zinc plating for enhancing corrosion resistance of parts. In the **passivating** process, the amount of dissolved metal ions (for example zinc and iron) in the **passivation** solution increases the longer the solution is used

CLEANING MATERIALS

Soak cleaners

Soak cleaners work simply by reacting with soil as parts are dipped in them. **Electro** cleaners use electricity to create a reaction that separates soil from your parts.

Electro Cleaner

Electro-Cleaner Solution is an alkaline based solution used to electrochemically **clean** plateable surfaces prior to plating. Often used to 'wet-out' the surface to ensure adhesion of gold plating.

Steels

Steels – In essence, steel is composed of iron and carbon, although it is the amount of carbon, as well as the level of impurities and additional alloying elements that determine the properties of each steel grade. We offer our clients a complete package that includes steel bars, Ready To build and pre-engineered steel building solutions etc.

Scaffoldings

Scaffoldings – is a temporary structure used to support a work crew and materials to aid in the construction, maintenance and repair of buildings, bridges and all other man-made structures. Scaffolds are widely used on site to get access to heights and areas that would be otherwise hard to get to. We are engaged in supplying the tube and coupler (fitting) components, prefabricated modular system scaffold components, H-frame / facade modular system scaffolds Along with its accessories.

Construction Equipment's

Construction Equipment's- Specially designed in executing construction tasks, mining equipment's, material handling and warehousing equipment's – No matter what's your requirement in terms of construction equipments and machineries – We have all solution!

Hard wares, Tools & Machineries

Hard wares, Tools and machineries – things (such as tools or parts of machines) that are made of metal – We can recommend and provide ideal solution for any of your Hard ware, tools

Sanitary Wares

Sanitary Wares- We provides you with a wide range of designs and features to enhance your bathroom space. Our wide range of wash basins, offering Wall Hung, Over Counter, Under Counter and Counter Top installation are well coordinated with the basin mixers/taps. our water closets with single piece, coupled and wall mounted options, fit into the installation parameters perfectly.

Sanitary ware Fittings (Faucets)

Sanitary ware -Fittings (Faucets)- We offer wide range of faucets offering, basin mixers/Tap, Shower mixers, health faucets, flushing system, wash room accessories, hospital related products etc. Our faucets confirm to the global quality and regulatory standards. Apart from Chrome finish, there are wide variety of color finishes available to choose.

Concealed & Exposed Showers

Concealed and exposed Showers Whether it is concealed or exposed showers. We can offer unique and comprehensive solutions for your requirements.

Water Heaters

Water heaters- We offer complete range of manual/digital water heater and solar water heaters . It has whole range of safety, energy efficiency features.

Ceramic Tiles

Solar Solutions - Solar energy is radiant light and heat from the Sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaics, solar thermal energy, solar architecture, molten salt power plants and artificial photosynthesis. We can offer you a comprehensive solar solution at affordable prices.

Verified Tiles

Verified Tiles – Vitrified tile is a ceramic tile with very low porosity. It is an alternative to marble and granite flooring. Vitrified tiles are often used outdoors due to their water and frost resistance. There are four types of Vitrified tiles – Soluble salt, Double charge, Full Body, Glazed.

Porcelain Tiles

Porcelain Tiles – Porcelain tiles is made from finer grained clay than ceramic and it is fired at a higher temperature. These factors make porcelain tile denser, less porous and more resistant to moisture and stains. As a result, Most porcelain tiles are suitable for both indoor and outdoor installations. Porcelain tiles are available in matte, unglazed or high polished finishes.

Tile Mosaics

Tile Mosaics- Tile Mosaics allow you to be creative with design. Mosaics are most commonly used for smaller areas, Such as bathroom, Kitchen backsplash. The mosaic tiles are also available in premounted paper or fabric mesh sheets to simplify the installation.

Granites Marbles

Granites and marbles – Granites and marbles have been used for centuries in homes to create a luxurious and unique look. We have wide verities of color combinations to select.

MDF Boards

MDF Boards- MDF boards are stronger and denser than plywood's. We offer MDF boards with size of 21 ,3,6,9,12,15,18 and 25mm.

Marine Plywood

Marine Plywood – It is manufactured from durable face and core veneers. So it performs longer in humid and wet conditions and resist delaminating and fungal attacks.

Gypsum Boards

Gypsum Boards – Gypsum plaster boards are the ultimate wall and ceiling solution for buildings, providing high level of security in terms of fire rating, acoustic insulation, thermal insulation and moisture resistance to create modern internal environments that offer comfort and safety. They offer superior solution for wall, ceiling, stair wells and corridors in the buildings. We offer regular 9 and 12 mm gypsum boards, Moisture resistant gypsum board 12.5mm, firestop gypsum board 12.5mm, building plater, POP's etc..

Suspended Ceiling System

Suspended ceiling system – It is a prefinished gypsum tiles manufactured from high quality gypsum boards and laminated with high quality PVC film. It can be easily installed in to a removable T-bar system. It can be easily clean by using the dump cloths. We offer complete fitting and accessories as well..



FRUITS AND VEGETABLES

We have strong commitment towards providing its valuable customers with high quality fruits, vegetables, and other food products

APPLE	STRAWBERRY
ORANGE	BLACKBERRY
GRAPE	BLUEBERRY
CHERRY	PEAR
BANANA	AVACADO
LEMON	MANGO
LIME	PINEAPPLE
GUAVA	POMEGRANATE
KIWI	MELONS



FOOD STUFF TRADING

SWEETS AND CHOCOLATES CORN FLAKES AND ENERGY BAKERY ITEMS, NUTS, DAIRY ICE CREAM, CANNED FRUITS AND VEGETABLES NOODLES & PASTAS, JAMS, PRESERVES, OIL, PICKLES AND SAUCES.

OILVE OIL,OLIVES AND PICKLES RICE, WHEAT PULSES AND SPICES JUICES AND DRINKS HOT AND COLD BEVERAGES HERBS AND CONDIMENTS FROZEN FOODS, INSTANT MIX'S





• FS19, 1st Floor, Dubai Shopping Centre

Dubai-United Arab Emirates

www.pentacorpgroup.com