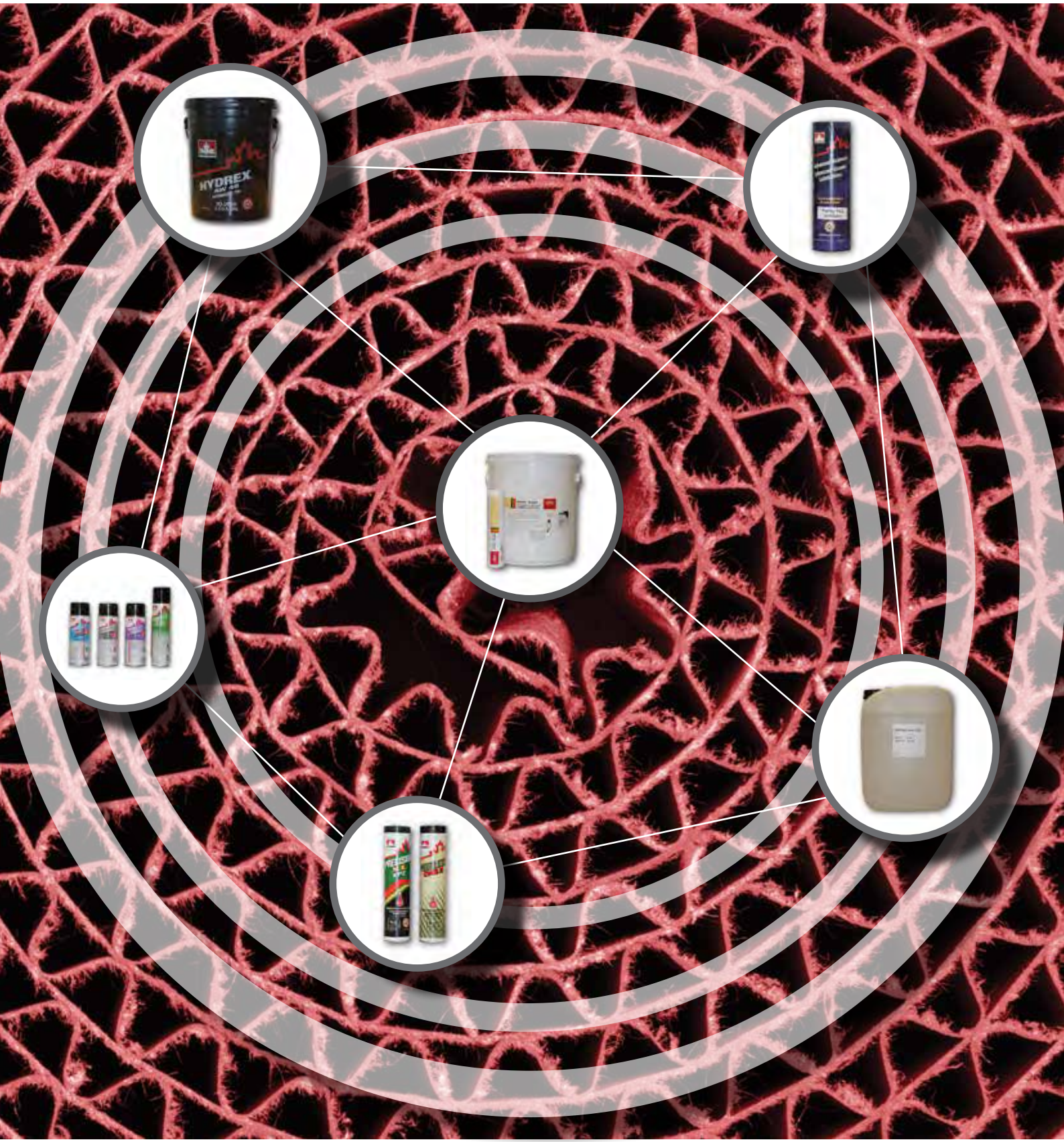
GBR
TECHNOLOGY LIMITED



Lubricants and Greases for use in Corrugator Plants

GBR Technology Ltd is an established partner to the corrugator industry, supplying over 90% of corrugator sites in the UK and Ireland. Our standard of service and technical support is well known to many in the corrugator industry, principally due to our position as authorised supplier of Krytox Performance Lubricants and the hands-on work we have performed over the years converting sites onto Krytox grease for trouble-free and reliable operation.

Our range of lubricants and greases is extensive from both the authorised distributorships we hold and a number of our high quality own brand products. This brochure summarises a range of products particularly relevant for the corrugator industry but we do supply a much wider range of industrial and transport oils and greases.

Our firm belief is that high quality lubricants are by far the best and most cost effective solution in the long run. There are a number of benefits to using premium lubricants including:

- Long service life
- Reduced lubricant consumption
- Enhanced protection of parts and equipment
- Reduced downtime
- Increase reliability
- Easier maintenance
- Reduced waste volumes for disposal

On pricing we strive to be highly competitive for comparable product quality and our service and responsiveness is reassuringly attentive. We are ISO 9001 accredited, confirming our quality status.

As an authorised distributor for PetroCanada Europe, we already supply their products into the industry and they set the benchmark for quality and performance for hydrocarbon based lubricants.

About PetroCanada

With a range of over 350 fully formulated lubricants, PetroCanada have a unique quality advantage, starting most formulations with their 99.9% pure water-white base oil which derives from their patented HT process. As the number 1 global producer of food grade white oil, PetroCanada's Purity range often demonstrates a price advantage compared with in-kind products. Logistically, Europe is very well serviced with a hub warehouse in Rotterdam servicing major warehouses in many European countries including the UK. Supply lead times are generally very short - a matter of a few days in most cases, and 205L (and larger) shipments come with free delivery.

PetroCanada also have a no nonsense warranty that can be viewed at the following URL: **http://lubricants.petro-canada.com/en-gb/our-products.aspx**

In this brochure we have illustrated our range of high quality lubricants to service all the needs of an integrated corrugator plant from corrugator roll bearings, pre heaters and pre conditioners etc. to gearboxes, hydraulic systems and handling equipment. In addition, GBR are able to offer full technical support and advice on most aspects of lubrication.

Products:

Greases:

Krytox Corrugator 226FG is the industry standard grade for the high temperature bearings of the corrugator, pressure, preconditioner and preheater rolls within corrugator booths. This NLGI Grade 2 grease is a PTFE thickened, PFPE based synthetic lubricant combined with an effective corrosion inhibitor. It offers outstanding performance in the most hostile of environments. It can operate in extreme temperatures (greater than 250°C) and is resistant to steam and water washout. It is also NSF H1 Food Grade certified. Typically it is supplied in 20 kg pails or 0.8kg cartridges (fits standard size grease gun). Note: this material has a density that is double that of hydrocarbon based greases. ***Krytox Solvent*** is also available which can be used to clean off Krytox grease residues (conventional solvents will not dissolve Krytox).

PetroCanada Peerless LLG can be used at elevated temperatures including bearings within the double backer area that may run up to 150°C. This uses a calcium complex thickener that performs at elevated temperatures and also renders the grease highly resistant to water wash out. NLGI Grade 2. Available in 400g cartridge, 17kg and 54kg pails/drums.

PetroCanada Peerless OG 2 is a calcium sulphonate thickened grease for reliable performance in wet and moderately elevated temperatures (up to 140°C). NLGI Grade 2. Available in 400g cartridge, 17kg and 54kg pails/drums.

Peerless OG Plus is an NLGI Grade 2.5 version of OG2 and has greater tackiness and adhesion. Available in 400g cartridge, 17kg and 54kg pails/drums.

Precision XL EP 2 grease is a high quality conventional lithium complex thickened grease for general use. NLGI Grade 2. Available in 400g cartridge, 17kg and 54kg pails/drums.

Slitter Scorer Fluids:

GBR offer a range of products to meet your requirements:

GBR Slitter Scorer Fluid is a proven ester-based fluid which provides good 'wetting' onto metal surfaces, greatly reduced starch adhesion and effective lubrication of slitter scorers. Available in a range of pack sizes from 5 litres to 1000 litre IBCs.

Corrcut-E Fluid 15 is an NSF H1 incidental food contact grade containing white oil combined with a special additive. Available in 20 litre and 205 litre pack sizes.

Purity FG WO 15 is an NSF H1 and 3H certified low viscosity white oil that also performs as a food safe slitter scorer fluid

Chop Knife Lubricants:

High viscosity gear oils are generally ideal for chop knife lubrication - their higher viscosity can enable lubrication without 'fling off'.

Enduratex EP 220/320/460 are a range of 3 increasing viscosity oils where incidental food contact status is not required.

Purity FG EP220/320/460 are a range of 3 increasing viscosity oils which carry NSF H1 certification for incidental food contact use.

Starch Removal:

Purity FG WO 15 and GBR Slitter Scorer Fluid both perform well for softening and removal of starch from heated corrugator rolls and surrounding areas.

Purity FG Synthetic Roll Clean Fluid is an ester-based NSF H1 incidental food contact grade product for effective roll cleaning.

Hydraulic Fluid:

Hydrex AW 32/46/68 are very high quality products - based on severely hydrotreated group II base oil. These product are already cold filtered to 3 microns to assist filter life.

Gear Oil:

Enduratex EP 220/320/460 are a range of high quality extreme pressure gear oils based on highly refined Group II base oil.

Enduratex Synthetic EP 220/320/460 are fully synthetic grades.

Purity FG EP 220/320/460 are NSF H1 food contact certified grades.

Chain Fluids:

Duratac Non-Drip Chain Fluid is a tackified oil available in viscosities from ISO32 to 150, whilst ***Purity FG Chain Fluid Light*** and ***Heavy*** carry NSF H1 certification for incidental food contact use.

Maintenance Sprays:

PX-24 is a high strength industrial and military specified multi-purpose protective lubricant and water displacing fluid supplied in 500cc trigger pack as well as 5 litre containers.

Purity FG Aerosol Spray is an NSF H1 approved product available in 400ml aerosol can.

Purity FG Penetrating Oil Spray is an NSF H1 approved product with a penetrating action and is available in 355ml aerosol can.

Purity FG2 Aerosol Spray with Microl™ is an NSF H1 spray containing an EPA registered antimicrobial preservative for food grade lubricants and is available in 355ml aerosol can.

Product Summary (individual data sheets available on request)**:**

Greases

Product	Application	Incidental Food Contact	NLGI	Temperature range	Water resistant	Pack sizes	Type
Krytox Corrugator 226FG	Corrugator, pressure, preconditioner and preheater roll bearings	NSF HI	2	Up to 260°C	Yes	0.8kg carts 20kg pail	PTFE/PFPE
Krytox Solvent	Removal of Krytox Grease residues	-	-	-	-	0.8kg	Fluorinated solvent
Peerless LLG	Double backer bearings etc.	No	2	Up to 150°C	Yes	400g carts 17kg/ 54kg pails	Hydrocarbon/Ca complex
Peerless OG2	Good water resistance	No	2	Up to 140°C	Yes	400g carts 17kg/ 54kg pails	Hydrocarbon /Ca sulphonate /carbonate
Peerless OG Plus	Good physical 'sealing' properties	No	2.5	Up to 140°C	Yes	400g carts 17kg/ 54kg pails	Hydrocarbon /Ca sulphonate /carbonate
Precision XL EP 2	General purpose Li complex	No	2	Up to 120°C	Limited	400g carts 17kg/ 54kg pails	Hydrocarbon /Li complex

Slitter Scorers/ Starch Removal

Product	Viscosity	Incidental Food Contact	Type	Pack sizes
Slitter Scorer Fluid	14cSt @40°C	No	Ester	5L, 20L, 200L 1000L
Corrcut-E Fluid 15	16cSt @40°C	NSF H1	White oil plus additive	20L, 205L
Purity WO FG 15	15cSt @ 40°C	NSF H1/3H	White oil	20L, 205L
Purity FG Synthetic Roll Clean Fluid	37cSt @ 40°C	NSF H1	Ester	20L, 205L

Gear Oils

Product	Viscosity	Incidental Food Contact	Pack sizes
Enduratex EP220/320/460	ISO220/320/460	No	20L, 205L, 1040L
Enduratex Synthetic EP220/320/460	ISO220/320/460	No	20L, 205L
Purity FG EP 220/320/460	ISO220/320/460	NSF H1	20L, 205L

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Chop Knife

Product	Viscosity	Incidental Food Contact	Pack sizes	Type
Enduratex EP220/320/460	ISO220/320/460	No	20L, 205L, 1040L	Group II base oil
Purity FG EP 220/320/460	ISO220/320/460	NSF H1	20L, 205L	White oil

Hydraulic Fluids

Product	Viscosity	Incidental Food Contact	Pack sizes
Hydrex AW 32/46/68/100	ISO32/46/68/100	No	20L, 205L, 1040L
Purity FG AW 32/46/68/100	ISO32/46/68/100	NSF H1	20L, 205L, 1040L

Chain Fluids

Product	Viscosity	Incidental Food Contact	Pack sizes	Type
Duratac Non-Drip Chain Fluid 32/68/100/150	ISO32/68/100/150	No	4 x 4L, 20L, 205L	Tacky oil
Purity FG Chain Fluid Light/Heavy	ISO150/320	NSF H1	20L 205L	Incidental food contact grades

Maintenance Sprays

Product	Incidental Food Contact	Pack sizes	Type
PX-24	No	500ml trigger pack 5L	Lubricant, penetrant, rust protection
Purity FG Aerosol Spray	NSF H1	400ml aerosol	Lubricant, light rust protection
Purity FG Penetrating Oil Spray	NSF H1	355ml aerosol	Lubricant, penetrant, light rust protection
Purity FG Aerosol spray with Microl™	NSF H7	355ml aerosol	Lubricant, light rust protection, anti-microbial

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