

CORPORATE PRODUCT OVERVIEW



Range of Weld Purging Products

Huntingdon Fusion Techniques HFT® are proud to have shaped the Industry of some 44 years to become the acknowledged World Leaders in Gas Weld Purging Techniques.

From the early beginnings with the development of the World's first Weld Purge Monitor®, which has become the standard instrument of today, Huntingdon Fusion Techniques have maintained their position at the forefront of technology by developing and evolving new products to maintain pace with advancing technology and market demands.

Prestigious Headquarters with extensive offices, factory and warehousing are strategically located near high speed roads, seaports and international airports, allowing efficient shipments and quick deliveries to all Distributors and Customers in every part of the globe.

With a string of major international offices, HFT® and their dedicated distribution branches are able to provide global coverage and an unbeatable technical knowledge base, supported by an innovative research and development team who are constantly striving to update, improve and advance the range of products to remain at the forefront of weld purging technology.

HFT® manufacture all products in large volume batches to maintain high stock levels in order to meet the demands of the market place in any quantity for immediate shipment, anywhere, at any time.

Argweld® PurgEye® A Family of Weld Purge Monitors®

**PurgEye®
100 IP65**



**PurgEye®
200 IP65**



**PurgEye®
300 Nano**



**PurgEye®
500 Desk**



**PurgEye®
600 Touch**



**PurgEye®
1000 Remote**



**PurgEye®
1500 Site
IP68**



The World standard PurgEye® 100 IP65 Weld Purge Monitor®

- Push button 'Auto Calibration' feature at ambient (20.94%).
- Leak tight probe assembly.
- Low battery and low sensor indicator.
- Longer life sensor, 18 months approx.
- Quick connect/disconnect leaktight fittings for gas purge tubing.
- Tripod mount.

The PurgEye® 200 IP65, 500 Desk, 600 Touch, 1500 site and 1000 Remote Weld Purge Monitors® have:

- OLED screen with stunningly clear, bright figures and text.
- User settable, warning alarm levels, between 1 and 999 ppm.
- Reading from 1000 ppm - 1 ppm.
- Reads accurately to 10 ppm.
- Audible alarm to indicate low and high levels of oxygen.
- User port with two outputs to control welding equipment or activate alarms in the event of a rise in oxygen levels.
- Internal sampling pump with gas filtration.
- USB lead included to control PurgeLog™ software.
- PurgeLog™ data logging software* included.
- Leak tight fittings.
- Long life, faster response sensor and internal alarm.
- Quick fit and quick disconnect 'leak tight' purge tube fittings.
- No more wet cells to keep replacing and recalibrating.

PurgEye® 200 IP65 with PurgeNet™

- Battery or mains operated 90/250V single phase 50Hz or 60 Hz AC.
- Flow detection for accurate reading of gas samples.

PurgEye® 300 Nano

- Low cost, small, lightweight "Entry Level" 1ppm Monitor®.
- Mains only.
- Operating voltage 110/230V single phase 50/60Hz.
- Supplied with an external 12V power supply unit (PSU). Input voltage range 90 to 260 AC.

PurgEye® 500 Desk with PurgeNet™

- Reads PPM or Percentage.
- Mains operated.
- Supplied with an external 12V power supply unit (PSU). Input voltage range 90 to 260 AC.

PurgEye® 600 Touch with PurgeNet™

- Reads PPM or Percentage.
- Large touch screen with on-screen graph of the current weld.

PurgEye® 1000 Remote with PurgeNet™

- Hand held display and a 10m lead as standard.
- Optional 100m reel of outdoor cable with locking connectors.
- Reels of extensions cable can be connected for leads upto 1 km!
- Easy to pull through pipes.
- 1" ø stainless sensor holder to place at the weld site inside pipes to send purge data to the monitor up to 1km away.
- Battery operated or optional docking station for charging the battery.
- The unit will run from 100 - 250 volts, 50 or 60 hz supply.

PurgEye® 1500 Site IP68 with PurgeNet™

- IP65 with the lid open, IP68 with lid closed.
- Flow detection for accurate reading of gas samples.
- Power on / off with standby button for sensor warm up.
- Internal rechargeable battery or mains power operated.
- Recharging carried out via PurgeNet™.

PurgeNet™ controls the welding power sources such as orbital welders and other automatic welding systems to switch on and off according to oxygen levels, transferring data easily with the ability to link to external devices.

Inflatable Pipe Purging Systems

The **Argweld® Family Range of Inflatable Tube, Pipe and Pipeline Weld Purging Systems** were first designed and developed by Huntingdon Fusion Techniques in 1975. Since this time, we have introduced many new designs to stay up to date with the rapid changes in technology and quality control demands from key industries such as nuclear, aerospace, semi-conductor, food and drinks manufacturing, pipeline and offshore.

PurgElite®, Including the first ever **1 inch (25 mm)** system.

- No restrictions in elbows or bends in tube and pipes.
- Connecting hose resistant to hot metal up to 700°C (1,292°F).
- When fitted with PurgeGate® no chance of inflatable dams bursting.
- One hose from the inert gas supply is all that is needed.
- 9 sizes covering the range 1 to 24" (25 to 610 mm).

QuickPurge®

- Achieves non oxidised, corrosion free, zero colour welds.
- No restriction on gas flow.
- Blue hose as standard for additional inert gas flow when zero colour welds are required.
- Blue hose used for extra gas to cool the weld metal when required.
- PurgeGate®, anti burst device, is fitted to every QuickPurge® System as standard.
- Sizes available from 6" to 88" (152 to 2,235 mm).

HotPurge®

- Pipe weld Purging Systems for Heat Treated Chrome and High Strength Stainless Steels where the temperature may reach as high as 300°C (572°F).
- RootGlo® for positioning purposes, will glow up to 20 hours inside the pipe with only 10 minutes exposure to light.
- PurgeGate® is fitted to every HotPurge® System.
- IntaCal® included to eliminate complicated valve procedures.
- Sizes from 6" - 88" (152 - 2,235 mm).

Weld Purge Dams

- For closure welds, T piece joints, dome end connections, where a conventional Tandem Purge System cannot be used.
- Each Dam is equipped with a purge / inflation hose (black), an extra purge gas hose (blue) as well as an exhaust for connecting a Weld Purge Monitor®.
- Excellent grip in the pipe with an effective all-round seal.
- Sizes from 6" - 88" (152 - 2,235 mm).
- Heat resistant up to 90°C (194°F).

Heat Resistant Covers for PurgElite®

- Temperature resistance up to 300°C (572°F).
- Sizes ranging from 1 to 12" (25 to 305 mm). Other sizes available on request.
- Holes manufactured for the fittings, such as inlet, exhaust, Weld Purge Monitor® connection and crimped end.



PurgElite®



QuickPurge®



HotPurge®



Weld Purge Dams

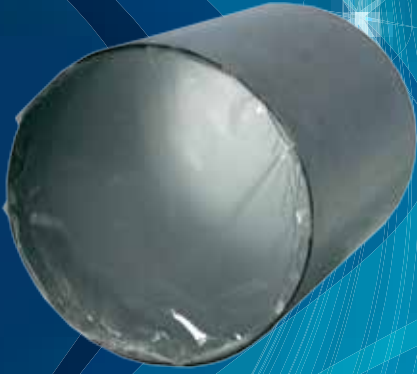


Heat Resistant Covers



PurgeGate®

Argweld® Purge Accessories Mixed



Water Soluble Weld Purge Film®



Weld Backing Tape®



Weld Trailing Shield®



Flexible Welding Enclosure®



Weld Purge Plugs

Water Soluble Weld Purge Film®

- Dissolves away completely without leaving any residues.
- Film and adhesive are biodegradable.
- Gives superior results over all other water soluble products.
- For use with stainless, duplex and chrome steels as well as titanium.
- Super adhesive supplied, that keeps the dams very firmly in place throughout the weld.
- No risk of Film dams coming loose and losing the purge !

Weld Backing Tape®

- Supports single pass welding at weld currents up to 600 Amps, without change to the chemistry or metallurgy of the weld.
- Provides back purge facility.
- Ideal for stainless steel and alloyed metals as well as carbon steels to provide flat root profile.
- Eliminates weld defects.
- Suitable for sheet, plate, pipes, vessels.
- No gouging or grinding.
- The 80 Ampere tape comes in rolls of 25m (80") length and the 160, 240 and 600 Amps tape rolls are 12.5m (40") long.

Weld Trailing Shield®

- For welding of stainless steels, duplexes, titanium and any other weldable metal where discolouration or oxidation needs to be eliminated.
- All shields fit all sizes of TIG/GTAW, PAW/Plasma and MIG/GMAW torches.
- Easy use for manual welders, as well as for automatic machines.
- Brighter, shiny, oxide free welds.
- Reduces gas consumption.
- Allows faster welding.
- Flat Trailing Shields® also available for sheet and plate.
- Radiused models are provided to suit the exact diameter of pipe or vessels being welded.
- Eliminates the need for an expensive welding chambers.

Flexible Welding Enclosure®

- Operator comfort and ease to use.
- Very low cost.
- Fast and easy purge.
- Bright, shiny, oxide free welds.
- Frees up valuable floor space.
- Excellent for stainless steel as well for titanium parts.
- Rectilinear and tailor made versions available.
- Special enclosures of any shape or size easily manufactured on request.
- Thousands installed all over the World. User list available on request.

Weld Purge Plugs

- Made from engineering quality nylon up to 150 mm (6") diameter.
- Virtually shatter-proof, easily cleaned and no rust or corrosion.
- A friction-reducing acetal copolymer thrust washer inserted between the top plate and wing nut provides easy expansion and release.
- Larger sizes incorporate strengthening ribs to provide rigidity in use.
- Standard seals made from natural rubber.
- Alternative rubber seals available, made from Nitrile, Silicone and Viton rubbers. Other materials on request.

Techweld® MultiStrike® Tungsten Electrodes

Safe, Green Non-Carcinogenic

Non - carcinogenic, green product for welding, use the safer alternative for your own health, **Protect yourself..!**



Techweld® MultiStrike®
Tungsten Electrodes



Techweld® MultiStrike® Tungsten Electrodes represent the highest quality, totally traceable, longest lasting and are the most reliable tungsten electrodes on the market allowing welding of steels and alloys with DC as well as aluminium with AC techniques giving narrower, lower heat input welds.

MultiStrike® Tungsten Electrodes produces a 10 times greater performance than conventional thoriated tungsten electrodes and provide a stable performance over the current range from 0 - 300 Amps.

MultiStrike® Tungsten Electrodes have been developed with the health and safety of the end user in mind.

Techweld® MultiStrike® TEG-1000 Grinder

Repeatable points every time

The use of the TEG-1000 Grinder will give repeatable Tungsten Electrode points every time, enabling consistent repeatable arc performance and welding results.

Axial grinding

By grinding the points longitudinally, the TEG-1000 eliminates arc flicker or wander.

Any diameters

Sizes from 1.0 to 3.2 mm can be ground using the multi hole tappet that is part of the grinder. Other diameters and short lengths can be ground by using the appropriate accessory electrode guides or pin vice.

Return on Investment

The Grinder has been purpose designed and manufactured for the job. The cost saved in grinding wheels alone can provide rapid payback on the modest outlay required to purchase this Grinder.

Prolonged Tungsten Electrode life

Savings can be achieved because of the increased life of properly ground Tungsten Electrodes. With the pin vice accessory, shorter tungstens can be held, significantly increasing the life time of each Tungsten Electrode before it is discarded.



HFT Pipestoppers® Inflatable Pipe Plugs and Stoppers

HFT Pipestoppers® Nylon, Aluminium and Steel Plugs for leak testing, sealing, isolation, stopping and weld purging of all pipes, pipe joints and pipework assemblies.

Sealing rings made from neoprene, nitrile, silicone or viton can be supplied as accessories to replace the natural rubber rings when required

Nylon Plugs

- Used for weld testing, leak testing of pipework fabrications, weld purging or simply stopping to prevent the ingress of dirt, rodents and other unwanted material.
- Also for ducting and conduit, plastic pipe bending, swimming pools, masking in painting and casting industries and many others.
- Light, non rusting easy to expand and can be dismantled for cleaning purposes.
- Provide airtight seals and in tests with plastic pipes.

Aluminium Pipe Plugs

- Size range 1.5 - 36" (38 - 914 mm).
- Used for plumbing operations, domestic and industrial water, drainage systems, offshore operations.
- For ducting and conduit, swimming pools, masking in painting and casting industries.
- Suitable for arduous duties such as immersion in chemicals and / or higher temperatures.
- Used in all kinds of pipes and materials for leak testing, isolation, sealing, stopping and weld purging.

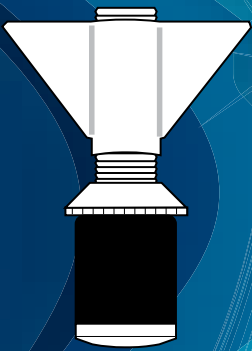
Steel Plugs are available in size range:

- 1.5 to 72" (38 to 1,829 mm).
- Suitable for more arduous duties such as long immersion in water, for use at higher temperatures or for contact with acidic or alkaline environments for which the nylon, aluminium and inflatable plugs may not be suitable.
- Plugs conform to British Standards BS 8005 for low pressure testing and sealing of pipes.
- **Double Steel Expanding Plugs** for increased stability, higher pressure duties and better sealing.

The **Double Steel Expanding Plugs** will prevent the tipping, so called the 'butterfly' effect.

PlugFast™

- Available in size range diameters from 17 - 96" (432 - 2,440 mm).
- Single port series and a double port option.
- The centre stem is 2" (50 mm diameter) and is threaded to accept a 2" BSP screw cap.
- The second port is normally fitted with a 4" (100 mm) plain bore and supplied complete with a 4" (100 mm) steel drain test plug.
- This port is normally offset to the outer edge of the Peripheral Sealing Plug allowing the water to be easily drained from the pipeline after testing.



HFT PIPESTOPPERS®



Nylon Plugs



Aluminium Plugs



Steel Plugs



PlugFast™

HFT Pipestoppers® Inflatable Pipe Plugs and Stoppers

HFT Pipestoppers® Inflatable Stoppers, this range includes Spherical and Cylindrical models as well as heat protected stoppers for use up to 300°C (572°F).

Inflatable Stopper; Cylindrical and Spherical

- Available for immediate delivery with sizes ranging from 1 to 96" (25 to 2,440 mm).
- For special applications such as blocking a chute so materials don't accidentally fall in and protecting a pipe from debris during downtime.
- Each Stopper is fitted as standard with a Schraeder Valve for inflation and deflation, which is connected to a 1.2 metre long hose.
- 0.2 to 10 psi back pressure subject to diameter.

PetroChem® Stopper

- The total range includes Spherical and Cylindrical Inflatable Stoppers to resist most petrochemicals.
- 1" - 96" (25 - 2,440 mm) models have a 1.3m hose length, 8 mm ID, 14 mm OD and are all fitted with a standard Schrader Valve.
- Usable for all petrochemical operations where hydrocarbons are present in liquid or gas form.
- Where pipes have had hydrocarbon gases or liquids inside.
- Usable for debris stopping, leak testing and plumbing operations.

Rubber Pipe Plugs

- To suit 1.5 to 78" (35 - 1,981 mm).
- Suitable for use in petrochemical applications and resistant to oils and hydrocarbons.
- Ideal for fast, reliable and safe stopping and blocking of pipes, joints, channels, inlets.
- Manufactured from high quality rubber, comprising a mix of styrene, butadiene and isoprene.
- Flexible and easy installation.
- Lightweight, takes only seconds to fully inflate.
- Temperature resistant from -40 to +700°C.
- Tough, durable and have a long-life.
- Quick disconnect fittings.
- Temporary or long term use.
- This range is suitable for 0.3 to 0.5 bar back pressure.
- An additional range is available that has a 2.5 bar back working pressure.

Low Profile Stopper

- For pipes, ducts and other orifices.
- Excellent grip in the pipe with an effective all round seal.
- For pipe diameters from 6" - 88" (152 mm - 2,235 mm).
- Heat resistant up to 90°C (194°F).
- Each Stopper is fitted as standard with a Schrader Valve connected to a 1.2m hose, which means it can be easily inflated and deflated inside the pipe.
- Four pull tags are located around the circumference of the Low Profile Stopper. This means rope, pull wires or slings can be attached for retrieval of the deflated system if required.
- A secure method of blocking pipe ends to keep gases inside or to keep debris and vermin out.
- In a vertical mode, they are ideal to prevent machining swarf or tools from falling into pipes or orifices into unrecoverable situations.



Inflatable Stopper



PetroChem® Stopper



Rubber Pipe Plugs



Low Profile Stopper

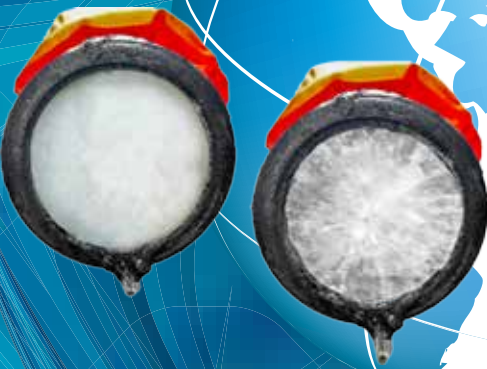
HFT Pipestoppers® Inflatable Pipe Plugs and Stoppers



Heat Resistant Covers



Accu-Freeze™



Qwik-Freezer™

Heat Resistant Covers for Cylindrical, Spherical and PetroChem® Stoppers

- Available as an accessory for Standard Cylindrical and Spherical Inflatable Stoppers.
- For exposure to temperatures up to 300°C (572°F).
- Protects the Inflatable Stopper, preventing them being damaged or bursting.
- Reusable time and time again, without losing their heat protecting properties.
- Manufactured to suit all sizes within the Standard Inflatable Stoppers range 1 - 96" (25 - 2,440 mm).
- Ties on each Heat Resistant Cover ensure they are held on to each Inflatable Stopper securely.

Accu-Freeze™ Automatically Controlled Liquid Nitrogen Pipe Freezing System to produce "Ice Plugs"

- Saves valuable time normally lost draining and refilling a system.
- Avoids complete shutdown of systems and equipment.
- Prevents waste of large amounts of water or other valuable liquid.
- Eliminates handling of contaminated water.
- Safe and cost effective.
- Able to control the system from a remote location thus keeping operators safe from contamination or other danger.
- Ability to automatically control the freeze temperature.
- Liquid N₂ delivery is more cost effective than other refrigeration systems.

Qwik-Freezer™ Portable Pipe Freezing System

- Saves valuable time lost draining and refilling a system.
- Qwik-Freezer™ Systems allow operators to source their own liquid carbon dioxide (liquid CO₂), so no expensive refills or replacements of refrigerant.
- Avoids complete shutdown of systems and equipment.
- Standard products to suit pipe and tube sizes from 3/8" - 8" (10 mm - 203 mm) diameter.
- Liquid CO₂ delivery system "Dry Ice" is notably colder than other refrigerants.
- Long freeze length provides large plug size.
- No recalibration of Qwik-Freezer™ Products necessary.
- No need to have the cost of the local fire service standing by, in the event that the whole system is drained.

Note: On Youtube you will find several video's of our products in use.

HUNTINGDON FUSION TECHNIQUES HFT®

WELD PURGING PRODUCTS
INNOVATORS, MANUFACTURERS and
INTERNATIONALLY RENOWNED SPECIALISTS

HFT01-25-06-2019 ME

Huntingdon Fusion Techniques HFT® Stukeley Meadow Burry Port Carmes SA16 0BU United Kingdom (UK)
Telephone +44 (0) 1554 836 836 Fax +44 (0) 1554 836 837 www.huntingdonfusion.com Email hft@huntingdonfusion.com

E&OE. Copyright © HFT. All rights reserved. This publication may not be reproduced by any means without the written permission of Huntingdon Fusion Techniques HFT®
Tradenames and logos are the property of HFT and registered ownership of HFT.