CHEMTECH
The purge dam material that simply flushes out of pipe with water without leaving a residue.

In the past, purge chambers for gas-Tungsten arc (TIG) welding have been made of such materials as cardboard or heavy paper. But these often were costly in time and effort to remove and could leave dangerous residue in the line. Other methods such sa bladders and cones are bulky to store and transport, costly to replace, subject to malfunction and damage, and limit the size of pipe in witch a purge chamber can be effectively created.

The introduction of CHEMTECH paper and tape by GHI greatly simplified and literally revolutionized purge damming.

Because CHEMTECH is water soluble, it can be flushed away with water when the weld is completed. It disappears completely, so there's nothing to remove from the line.

CHEMTECH
is soluble in hot or cold water or steam.

CHEMTECH paper and tape are made of a cellulose polymer. Flushing the pipe with water or steam after welding removes not only the CHEMTECH soluble paper dam but also the tape which is a combination of CHEMTECH paper and a tackified water soluble resin.

And CHEMTECH leaves no undersirable residue or trace elements in the line.

CHEMTECH
is strong enought to maintain the important oxygen purge.

Although CHEMTECH materials disperse in water when no longer needed, they are strong enough to dam argon, helium and other inert gases. They are simple to use, require no special tools or training. They can be formed to fit all sizes and shapes of pipe and tubing.

CHEMTECH
provides multiple advantages over other purge dam materials.

- **Fits all sizes and shapes** of piping and tubing. CHEMTECH's use is not limited to small diameter pipes as cones are.
- **No special skills or tools required.**
- **Easy to remove.** CHEMTECH dams flush away automatically and completely. They can be used even where the pipe interior is inaccessible after welding.
- **It is clean,** leaves no harmful residue when flushed away. It is not subject to the risk of bursting inside the pipe like bladders.
- **Economical.** Non-disposable dams such as bladders and cones are expensive to replace when damaged, lost or stolen. CHEMTECH paper and tape are inexpensive and disposable. They also save time and purging gas.
- **Easier to handle and transport.** A small amount of CHEMTECH paper will take care of a welder's needs for an entire day. Bladders, cones, and discs are bulky and more difficult to transport. Moreover a welder using them can purge only one joint at a time unless he carries an adequate supply.
- **CHEMTECH has been proven effective** in thousands of applications in stainless and other steel alloy pipes.

CHEMTECH
has become the preferred purge dam material of the welding industry.

CHEMTECH is today being used successfully in nuclear and fossil fuel plants, breweries, processing and chemical plants, offshore drilling rigs, tankers, pipelines, pulp mils, and similar applications.

Analysis table of Chemical

CHEMICALS NAME	CONTENT	REMARKS
HALOGENATED COMPOUNDS	10PPM(Less than10PPM)	This measurement is the result of measurement in Japan. It is used for reference of the product and we are not responsible for it.
WATER LEACHABLE	25 PPM	
SULPHUR	Detection limt Less	
PB	Less than 5 PPM	
HG	Less than 1 PPM	
CD(CANMIUM)	Less than 1 PPM	
LEAD	Less than 1 PPM	
NITRATE	Less than 1 PPM	

The result of an examination

PURGE TAPE (CT-900)

Section	Thickness	Tensile force	Elongation	Retention power	Adhesive power	Heat-resistance	Adhesive
Unit	㎜	kg	%	㎜	g/25㎜	℃	
Baseline	0.14~0.15	7	3.5	0.1 less than	450	150	Water Solubility

PURGE PAPER (CT-901)

Section	Base weight	Caliper	Tension	Elongation	Opacity	Whiteness Index	velocity of dissolution
Unit	g/㎡	μ	kg	%	%	%	sec
Baseline	60	88	7.5	3.5	63	83	60

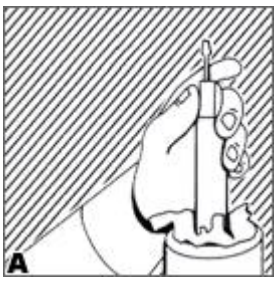
TECHNICAL DATA

Specification		Lot-610	Specification		UOM	Test Method
			Min	Max		
Substance		59	57	63	g/㎡	JIS P 8124
Caliper		111	95	115	μm	JIS P 8118
Tearing Strength	MD	508	279	-	mN	JIS P 8116
Tensili Strength	MD	3.7	3.6	-	KN/m	JIS P 8113
Stretch	MD	2.3	1.5	-	%	JIS P 8113
Dispersability		5	60	-	secs.	Our Own Method

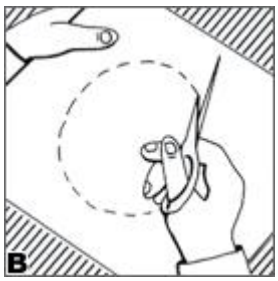
Product type and Size

Product Name	Size	Packing Unit	Remarks
PURGE TAPE No. CT-900	25㎜*91M	24 ROLL/BOX	Please peel off the backing paper before use, please use.
	50㎜*91M	12 ROLL/BOX	
PURGE PAPER No. CT-901	800㎜*50M	2 ROLL/BOX	It can be applied to all kinds of pipes and thickness is constant.
	400㎜*50M	2 ROLL/BOX	
	300㎜*50M	2 ROLL/BOX	
	200㎜*50M	4 ROLL/BOX	
When ordering, please specify the specification and you can also make it for special gasket.			

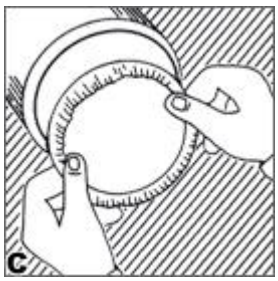
Purge dam construction is easy with **CHEMTECH** paper and tape.*



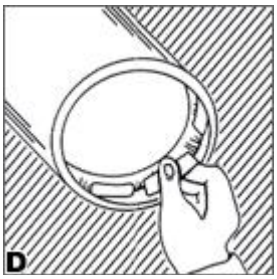
A. For small diameter pipes, simply position a wad of CHEMTECH paper several inches down into each section to be joined.



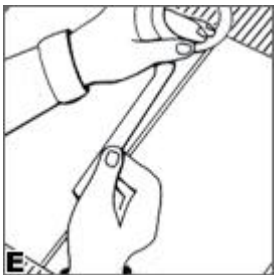
B. For larger pipes (4" I.D. and lager), cut the paper to a circular shape whose diametter is several inches greater than the pipe I.D. (S.g.,for a 6" I.D. pipe, cut an 8"diameter paper circle.)



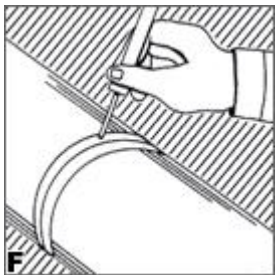
C. Trace or impress the pipe I.D. on the paper and fold on this line to form a 90° lip. Insert the dam into the pipe with the lip towards the weld prep.



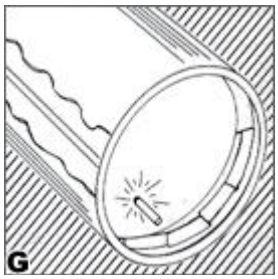
D. Peel tape from backing and use tape strip to fasten dam in place. It may be desirable to punch a small hole in the dam to facilitate the evacuation of air when purging.



E. For pipe lager than 28" in diameter, simply splice two or more sheets of CHEMTECH paper together with CHEMTECH tape, and proceed as in steps B,C and D.



F. After the dams are in place, Argon or another purge gas may be introduced through the root gap with a needle valve connected to the gas line.



G. If one end of the pipe is accessible, the purge gas may be introduced through a hole at the lower end of one dam.
A vent hole should be made at the upper end of the other dam toallow air and gases to escape. It may be desirable to cover the open root joint on the outside of the pipe with tape to prevent gas leakage.

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