

Your Single HDPE Source

ISCO Industries is recognized as the polyethylene pipe expert, stocking and selling only HDPE pipe for various industrial, municipal, environmental and landfill applications throughout the U.S., Canada and Australia. From order to delivery, ISCO prides itself on quick response – backed by technical support and face-to-face service at the job site. We are also one of the few pipe suppliers maintaining a full sales staff to assist our customers quickly and efficiently. ISCO offers quality 1" to 66" McElroy fusion machines for sale or rent, and is a McElroy repair and service center with a complete inventory of fusion units and parts. And, since price matters, we buy and stock more HDPE than



any other supplier, passing along volume pricing to our customers while providing many other value added services. Need pipe fast? Our numerous full-service and stocking sites throughout North America ensure we'll have the pipe you need, usually within a one day delivery of most jobs.

Make the call

HDPE pipe is becoming widely accepted and utilized

in the ethanol industry. And the HDPE supplier of choice is ISCO Industries.

Call us today at **1-800-345-ISCO (4726)**.

For HDPE, contractors know. Just call...

1-800-345-ISCO

ISCO INDUSTRIES

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ISCO
FUSION ACADEMY

ISCO
HDPE EXPO

ISCO
FUSION HOTLINE
1-800-345-4726

The single
source for
durability,
flexibility
and economy

HDPE Pipe in Ethanol Industrial Applications



ISCO INDUSTRIES

Coming through.

ETHANOL

HDPE. Durability. Value. Performance.

The dramatic growth in construction of ethanol plants finds engineers and contractors needing a single source for dependable, affordable, high-performance piping systems. Today, more and more of them are turning to high density polyethylene pipe, or HDPE.

The very properties of HDPE make it a perfect option across many applications in and around ethanol plants. HDPE's excellent impact resistance, high tensile strength, chemical and corrosion resistance, and ease-of-handling and installation are making it the "go to" piping choice.

HDPE ethanol industrial applications and advantages:

- FM Approved piping
- Underground piping meets or exceeds operating temperatures and pressures
- Cooling Water Applications
 - HDPE pipe is an excellent insulator, with minimal heat transfer. Copper transfers heat 2700 times more than HDPE.
 - HDPE does not become brittle at 32 deg. F
 - HDPE does not leak, it is seamlessly fused
 - HDPE does not corrode
- Instrument Air
- Fire Water
- Steam Condensate and Blow Down
- Raw Water
- Process Water
- BNSF RR Re-Piping Fueling Stations



ISCO custom fabricates HDPE structures at their fabrication plants or on the jobsite, as shown above with this 42" fabricated header for chilled water application at an ethanol power plant.

Capabilities plus! HDPE...

- Can be installed underground, eliminating the need for pipe stands common with other type pipe applications
- Is the only product that can be easily cut, fused or reworked on-site – making field engineering quick and efficient
- Can be joined together or transitioned to other materials with flanges, mechanical connections, or transition fittings
- Flexes, bends and absorbs impact loads over a wide range of conditions

- Pipe can absorb surge pressure, vibration and stresses caused by soil movement
- Offers excellent abrasion resistance, low notch sensitivity and high tear strength
- Smaller diameter pipe can be squeezed off to stop flow, then reused
- Pipe can be curved over, under or around obstacles, reducing the number of fittings and lowering installation costs
- Has an operating service temperature of -30 F to 140 F



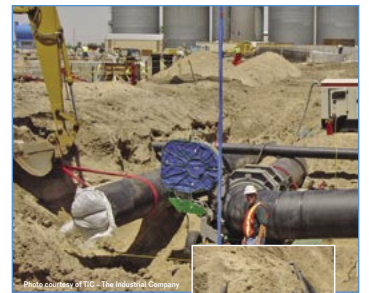
- Withstands freezing water better than traditional metal piping
- Systems maintain high fluid flow properties throughout their service life due to excellent chemical and abrasion resistance
- Pipe is available in coils through 6" for multiple applications
- Is weather resistant:
 - Carbon black is added to HDPE to provide UV protection
 - Frozen water will not crack or break HDPE pipe
- Is durable:
 - Withstands fatigue and surges
 - Safer due to operating pressure capabilities
 - Butt fused joints eliminate need for thrust blocks
- Delivers long term economy, value, and dependability

HDPE Fabrication

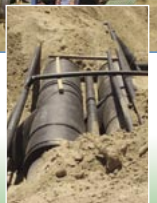
- Specialty HDPE Fittings
- FM Certified Fittings
- Dual Containment Pipe & Fittings
 - Manholes, Sumps, and Manifolds
- HDPE Design Assistance on staff
- Custom fabrication of polyethylene fittings and structures
- Pre-fabricated structures provide for ease-of-installation in the field

Fusion Services

- OSHA and Confined Space Certified Fusion Technicians
- Full line of butt fusion and electrofusion machines available for rental or purchase
- Fusion Equipment – Sales, Service, Rental, Repair, Refurbishment, and Training
- Fusion training and demonstration nationwide
- Fusion Hotline
(1-800-345-ISCO ext. 4790)



(Top) ISCO technician fuses 36" HDPE pipe in-ditch for a tie-in to an existing line. (Right) HDPE's flexibility allows for multiple pipelines and sizes to be buried together for various applications. The monolithic joints provide a leak-free system.



1-800-345-ISCO