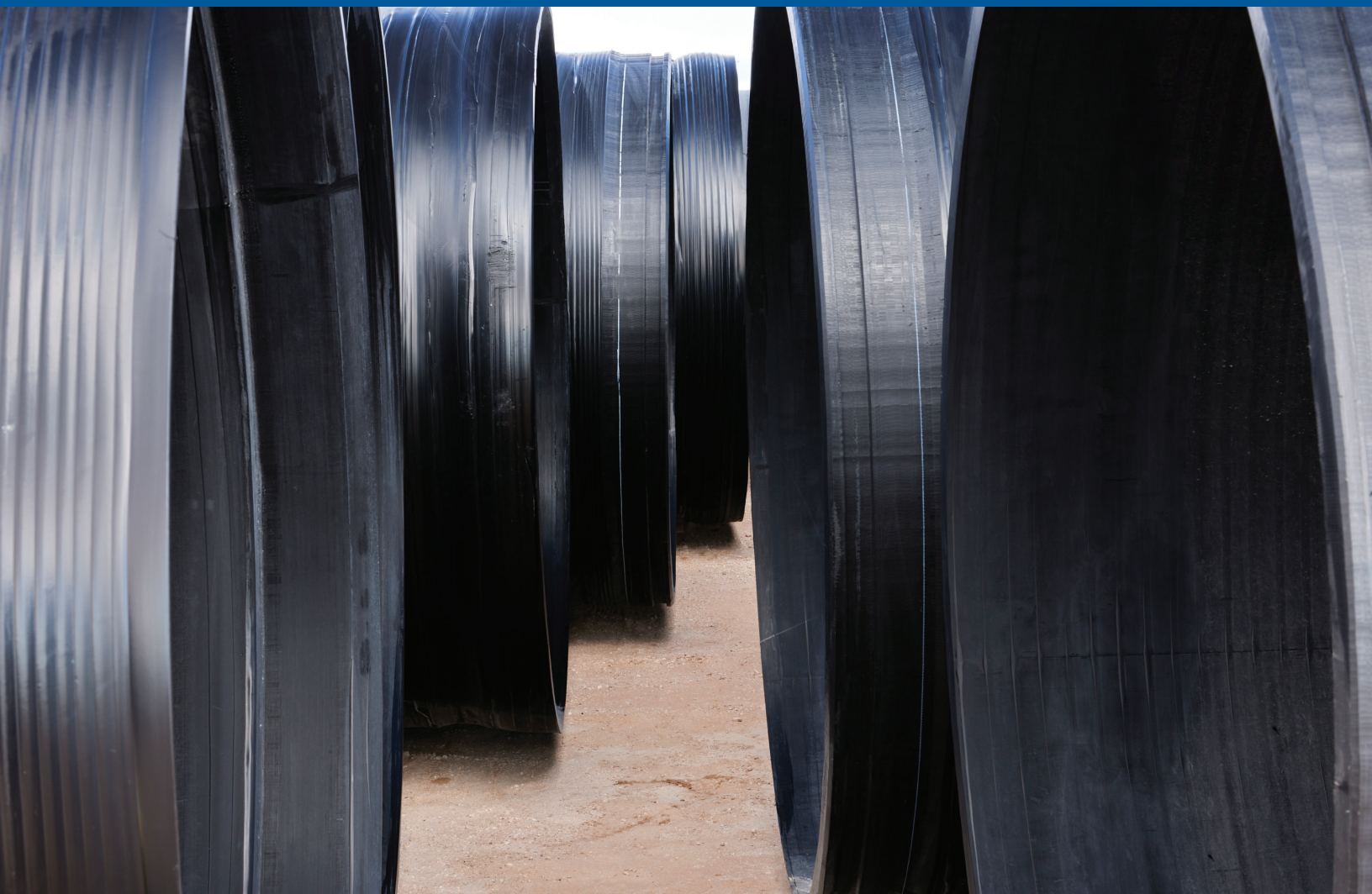




Spirolite[®] High-Density Polyethylene Pipe and Fittings



Faster to Install. Longer Design Life.
Large-Diameter HDPE Pipe That Delivers.





The Superior Choice for Large-Diameter Applications

Spirolite® sets the standard for large-diameter HDPE pipe in storm, sewer and industrial systems. Engineered for gravity and low-pressure applications, Spirolite delivers proven durability, installation speed and cost efficiency that today's projects demand.

BUILT FOR BIG PROJECTS

Available in diameters up to 120" (larger sizes on request), Spirolite competes directly with reinforced concrete, fiberglass and steel — and wins on total installed cost.



ENGINEERED TO LAST

With bell-and-spigot or welded joint options, Spirolite delivers leak-free performance for 100+ years of service life.



ISCO Insight:

Spirolite can be used for stormwater detention, sewer systems, utility vaults and more.

Profile-Wall Technology: Engineered for Efficiency

Spirolite® is manufactured using an exclusive spiral-winding process that creates geometrically efficient open- or closed-profile designs. This approach minimizes pipe weight while maximizing structural performance — giving you the strength you need without the installation headaches.

AVAILABLE PROFILE OPTIONS

- **SCP (solid wall)**
Maximum-strength applications
- **SOP (single-wall open profile)**
Standard applications
- **DOP (double-wall open profile)**
Enhanced structural performance
- **DCP (double-wall closed profile)**
Ultimate protection and strength

STANDARD SIZES

18" through 120" diameters

CUSTOM OPTIONS

We can modify wall thickness, tube diameter, rib spacing and more to create the perfect pipe for your project. Every parameter can be optimized for your specific application.



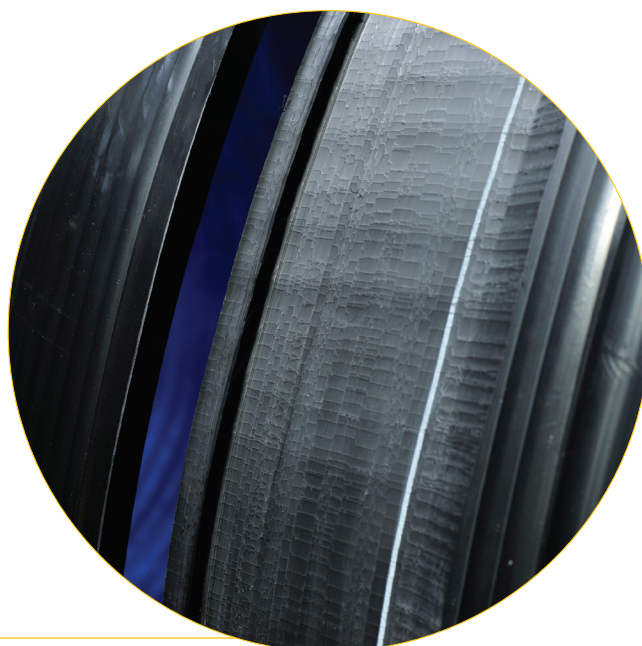
ISCO Insight:

Spirolite is commonly used for trunk sewers, culverts and landfill gas systems.

High-Performance Materials You Can Count On

Spirolite® uses stress-rated, high-grade PE 4710 HDPE material — the gold standard for long-term reliability and material trusted for drinking water systems and chemical transport for decades. With a service life of 100+ years, this material delivers the optimum combination of:

- + STRUCTURAL INTEGRITY**
Engineered for buried load-bearing performance
- + STIFFNESS**
Maintains shape and ring stiffness under heavy loads
- + IMPACT RESISTANCE**
Resists cracking, gouging and field damage
- + CHEMICAL RESISTANCE**
Withstands corrosive soils and aggressive effluents
- + CERTIFIED MATERIAL**
Minimum cell classification 445574C per ASTM D3350



Recycled. Reengineered. Responsible.

Select Spirolite components can be manufactured using recycled HDPE — giving new life to scrap pipe and fittings. ISCO's process reduces waste and supports sustainable manufacturing without compromising product integrity.



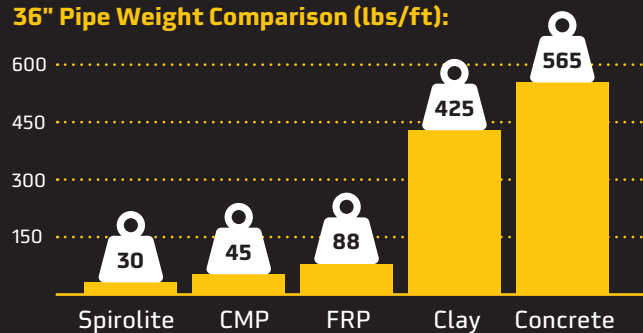
Why Spirolite® Outperforms Traditional Materials

Spirolite HDPE profile-wall pipe is engineered for long-term reliability and efficient installation. Compared to traditional pipe materials like RCP, FRP, CMP and clay, it delivers real-world jobsite advantages with fewer constraints and lower total cost.

1. **INSTALLS FASTER. COSTS LESS. LIFTS LIGHTER.** Spirolite is up to 75% lighter — reducing labor, installation time and equipment needs.

- Installs up to 30% faster
- Fewer joints = fewer potential leak points
- Less need for cranes or heavy equipment

36" Pipe Weight Comparison (lbs/ft):



ISCO Insight:

Spirolite is ideal for replacing storm lines, long-run sewer mains or aging culverts without heavy equipment.



2. **TOUGH, FLEXIBLE AND DURABLE** Spirolite absorbs ground movement and resists cracking — handling settlement, seismic shifts and unexpected loads.

- High elongation = bends without breaking
- Withstands impact and soil movement where rigid pipe fails
- Stress-crack resistant per ASTM D3350





3. HYDRAULIC EXCELLENCE

With a Mannings “n” value of 0.009, Spirolite® maintains long-term flow with less friction — reducing pipe sizing and slope requirements.

- Maintains full flow capacity over time
- Enables smaller pipe sizes or slopes = less excavation, lower cost



ISCO Insight:

Spirolite can be used in long-run sanitary sewer interceptors requiring efficient flow.



4. CORROSION AND CHEMICAL RESISTANCE



Spirolite resists the harshest conditions, outlasting other materials in corrosive, chemical and industrial environments.

- Immune to H₂S, sulfuric acid, electrolytic and galvanic corrosion
- Handles slurries, effluents and sewer gases
- Full pH range: 1.5 to 14



ISCO Insight:

Spirolite is built for landfill leachate systems and corrosive environments.



5. BUILT FOR EXTREMES

Spirolite performs in extreme climates, exposed environments and long-term storage.

- Withstands temps from -40°F to 140°F
- Resists UV degradation (2% carbon black)
- Approved for above-ground use



ISCO Insight:

Spirolite is tested in geothermal vaults and thermal loop infrastructure.



More Than Pipe: Spirolite® Is a Complete System

In a day where aging infrastructure is being replaced by higher-capacity systems and new projects are planning for future expansion, the demand for larger-diameter, long-lasting and low-maintenance piping solutions is increasing. Spirolite is the complete solution.



MANHOLES AND STRUCTURES

Complete your system with corrosion-resistant manholes, wet wells, lift stations and custom structures. Built for seamless integration with Spirolite, solid-wall HDPE and conventional materials.



COMPREHENSIVE FITTING OPTIONS

Full range of bell-and-spigot fittings for field assembly, including:

- Elbows, wyes, tees, flanges and lateral taps
- Custom fabrication for special applications



The ISCO advantage:

Custom structures. Fast fabrication. Jobsite-ready.

Applications: Proven Across Industries

Spirolite® is trusted across industries that require corrosion resistance, fast installation and long-term reliability.

MUNICIPAL AND INDUSTRIAL SOLUTIONS

- Storm and sanitary sewer systems
- Stormwater detention and retention
- Culvert rehabilitation and replacement
- Pipe relining and slip lining
- Industrial waste conveyance
- Marine installations
- Low-pressure pipeline systems

SPECIALIZED APPLICATIONS

- Odor control and ventilation ductwork
- Landfill leachate systems
- Above- and below-grade storage tanks
- Geothermal vaults and utility structures
- Custom-fabricated solutions

Spirolite Vs. Other Materials: The Comparison

SPIROLITE VS. OTHER PIPE MATERIALS

	SPIROLITE	CORRUGATED METAL	CONCRETE	FIBERGLASS	CLAY
Lightweight — Typical Weight per Foot of 36" Pipe (lbs)	30	45	565	88	425
Abrasion Resistant (Darmstadt Procedure 400,000 Cycles)	0.01"	0.05"	0.06" @ 150,000 cycles (max)	0.05"	0.03"
Allowed Deflection Before Failure	20%+	Less than 2%	~0	Long term is 5% or less	¼"/FT
Minimum Design Life Span (Years)	100+	35	70-100	50	50
Min. No. of Joints per 100 Feet of Pipe	5	2	13	5	10
Friction/Smoothness (N factor)	0.009	0.022	0.013	0.010	0.014
Withstands pH Level	1.5-14	5-8	4.5-6.5	7-11 (optimally) down to 2 is possible	1-14

SPECIFICATIONS AND STANDARDS

- **Manufacturing standard:** ASTM F894, Others as required (contact ISCO)
- **Joint standards:** ASTM D3212 (gasket joints), ASTM F477 (gasket design)
- **Material standards:** ASTM D3350 (PE materials), min. cell classification 445474C
- **Load requirements:** Meets AASHTO and ASTM. Local Agency Specifications as required (contact ISCO)
- **Standard sizes:** 18", 21", 24", 27", 30", 33", 36", 40", 42", 48", 54", 57", 60", 63", 66", 72", 78", 84", 90", 96", 108", 120"
- **Custom sizes:** Available through 144" and beyond



The verdict:

Spirolite delivers superior longevity, fast installs and lower total installed cost — project after project.

The ISCO Advantage: More Than Just Pipe

With the largest inventory of HDPE pipe and fusion equipment — and unmatched fabrication capacity — we deliver American-made supply with consistent quality. From prefabrication and field services to technical guidance and project support, ISCO brings the people, equipment and expertise to every job.

WE DON'T JUST SELL PIPE — WE DELIVER COMPLETE SOLUTIONS

Spirolite® is part of ISCO's broader offerings, solving tough infrastructure challenges with engineered HDPE systems. We collaborate with engineers, contractors and owners to streamline installation, reduce cost and improve long-term performance.

COMPLETE PROJECT SUPPORT

- Custom fabrication and spooling
- Fusion equipment sales and rental
- Technical support and training
- Field service and installation assistance
- Project coordination and design expertise

Proven Expertise Across Industries



MUNICIPAL



WATERWORKS



LANDFILL



GOLF



MARINE



EPC



GEOTHERMAL



INDUSTRIAL



ENERGY

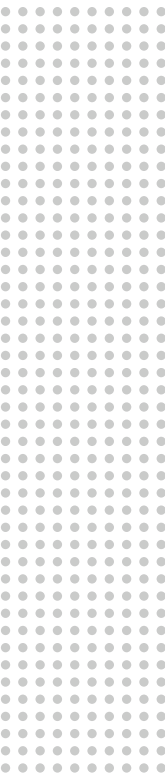


The Bottom Line

When you choose ISCO, you're choosing proven expertise, innovative solutions and the support to get your project done right.

READY TO GET STARTED?

Contact ISCO Industries today to discuss your Spirolite® project requirements.
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