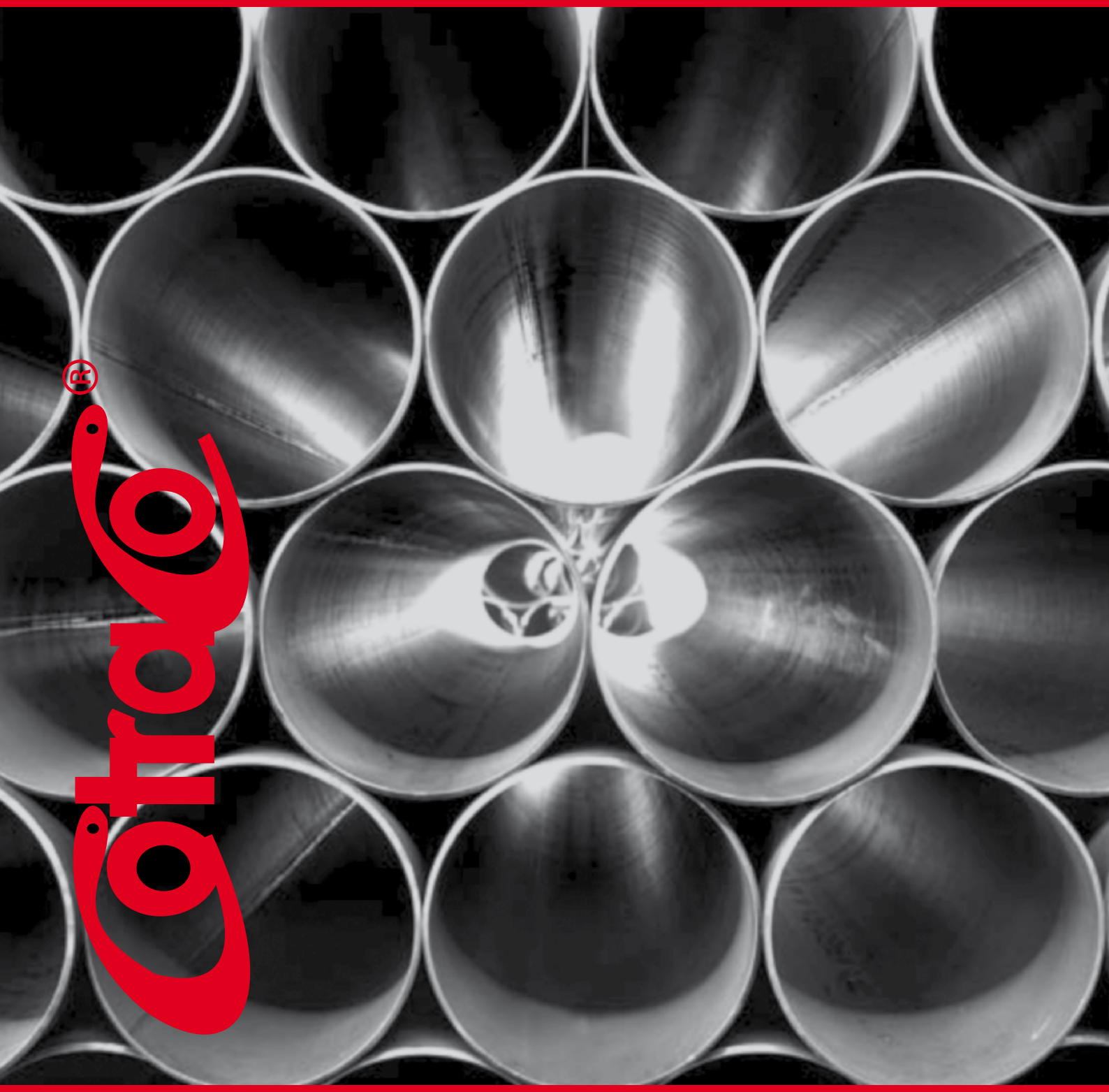


ISOLATED AND BARE STEEL PIPES

The Cotraco® group of companies offers you:

- ✓ Steel wire ropes, bright or galvanized for diverse industrial use, with diameters from 1mm to 80 mm;
- ✓ Galvanized steel wire ropes with standard or spiral construction (strands), flexible or semi flexible, with diameters starting from 1mm, delivered in coils of specific length or on wooden reels;
- ✓ Wire rope slings for traction or lifting, matissed or with sleeves at ends, simple or with high resistance accessories (hooks, shackles etc.) with 1, 2, 3 or 4 legs, wire rope diameters starting from 6m (300 kg lift) to 80mm (over 75000 kg lift);
- ✓ Grade 3 resistance chains according to DIN 766 (short link);
- ✓ High resistance chains, grade 8 according to EN 818, in specific lengths, or delivered as lifting or anchoring devices; mining chains according to DIN 22252;
- ✓ Chain lifting devices with 1, 2, 3, 4 or more legs, with or without tightener;
- ✓ Commercial galvanized chains, chains for animals;
- ✓ Chain anchoring devices for transport platforms;
- ✓ Lifting webbing slings, endless or flat, made of polyester, with a lift capacity starting from 1 ton; anchoring belts for goods during transport, with lengths of 5, 6, 8, 10 or 12m;
- ✓ Rutile or base welding electrodes, diameters 2.50, 3.25, 4.00 or 5.00mm; SG2 welding wire;
- ✓ 'Martin Miller' saw blades;
- ✓ Accessories for chains and wire ropes, for commercial and industrial use (clips, thimbles, hooks, shackles, snap hooks etc.);
- ✓ (*) Assembly pieces, bright or galvanized, or stainless steel, for different industrial use; shaft and bore rings, clamps;
- ✓ (*) Profiles, plates, pipes and other metallurgical products;
- ✓ (*) Coke, carbide, PP and PES cords.

Our clients recommend us

SATISFIED CLIENTS	FIELD OF ACTIVITY	DELIVERED PRODUCTS
FORAJ SONDE SA • DAFORA FORAJ SA	Gas and petrol drilling	Pipes, wire ropes, lifting and anchoring devices
ROMGAZ SA • TRANSGAZ SA • E.ON GAZ DISTRIBUȚIE SA	Natural gas	Coke, pipes, welding electrodes
DAMEN SHIPYARDS • ŞANTIERUL NAVAL CONSTANȚA • AKER SA	Shipyards and docks	High resistance chains, wire ropes for ships and anchoring
SCCF - COLAS SA • ACSA SA • 2 INVEST SA	Construction of bridges and rafts	High resistance wire ropes, assembly pieces
HIDROCONSTRUCȚIA SA • CONSTRUCȚII HIDROTEHNICE SA	Hydro technical constructions	Wire ropes, pipes, welding electrodes
BUILD CORP SRL • ROMBET SA • VICTOR CONSTRUCT • CONTRANSCOM BENȚA SA	Civil and industrial constructions	Materials for fixing, anchoring, traction and welding
COMPANIA NAȚIONALĂ A HUILEI • SOCIETATEA NAȚIONALĂ A LIGNITULUI OLTENIA	Mining	High resistance chains, carbide, wire ropes
COMPANIA NAȚIONALĂ A URANIULUI • SOCIETATEA NAȚIONALĂ A SĂRII	Extraction industry	Big wire ropes for draglines, excavators
COMPLEXUL ENERGETIC ROVINARI • COMPLEXUL ENERGETIC TURCENI SA	Energy complexes	Steel wire ropes, high resistance chains
MECANICA MARSA • MECANICA CEAHLĂU	Car manufacturing industry	Wire ropes for traction, electrodes and welding wire
HOLCIM SA • LAFARGE SA • CARPATCEMENT	Concrete industry	Special construction wire ropes, electrodes and welding wire
RNP ROMSILVA SA • HLV • FORESTAR	Forestry	Chains, wire ropes, drive belts, assembly pieces
ROMANEL SA • KRONOSPAN • MOBEXPERT	Timber industry	Saw blades, drive belts, welding electrodes, assembly pieces

Edited by S.C. Sands Promo S.R.L. - 25 October 2013

WELDLESS PIPES AND TUBES

Types	Dimensions range		standards	Fields of use	Delivery condition	Delivery state
	Wall thickness mm	Exterior diameter mm				
Cold drawn pipes	2,0…12,5	20…108	DIN 2448 EN 10210-2	Machines construction industry, general mechanic use	Bare, transparrent or black lacquered, with protective caps at ends if requested	Lengths between 4…12 m; bundles of 2-4 tons
Hot rolled pipes	2,3…11,0	21,3…114,3	DIN 2448 EN 10210-2			
	6,3…60,0	70,0…229,0				
Hot rolled pipes	2,41…57,2	21,3…228,6	ASTM 519			
Precision tubes	1,5…20,0	20,0…210,0	EN 10305-2 DIN 2391 STAS 531/1	Machines construction industry	Bare, transparrent or black lacquered, with protective caps at ends if requested , oiled	Lengths between 6…9 m or 8…11 m; bundles of 2 tons
Honing pipes	5,0…20,0	30,0…210,0				
Cold drawn pipes for tanks	2,0…12,5	20…108	DIN 17175 EN10216-2, ASTM A106, NF A 49-211, ASTM A179/A179M	Confectioning tanks, pipelines, high pressure vessels, generally high temperature or pressure equipments	Bare, transparrent or black lacquered, with protective caps at ends	Lengths between 5…12 m; bundles of 2-4 tons
Hot rolled pipes for tanks	2,3…11,0	21,3…114,3				
	6,3…60,0	70,0…229,0				
Pipelines	9,53…25,4	73,0…219,1	API Spec 5L. ASTM A53, EN 10208-2	Main pipelines for gas or liquid fuels, in petrol and gas industry	Bare, transparrent or black lacquered, with protective caps at ends if requested	Lengths between 5…7 m or 10…12 m
	2,77…11,13	21,3…114,3				Lengths of 6, 9 or 12m
Gas and water pipelines	2,3…4,0	thin weight	EN 10255, UNI 8863, STAS 7656, EN 10208	Main pipelines for gas or liquid fuels, in petrol and gas industry	Bright or galvanized, with straight or threaded ends	Lengths between 5-7 sau 10-12 m; bundles of 4 tons
	2,6…4,5	medium weight				
	3,2…5,4	heavy weight				
Drawn pipes for low temperature sectors	6,3…40,0	70,0…219,1	EN 10216-4, ASTM A333, ASTM A334	Low temperature installations	Hot rolled, Bare, transparrent or black lacquered, with protective caps at ends if requested	
	2,3…11,0	21,3…114,3				

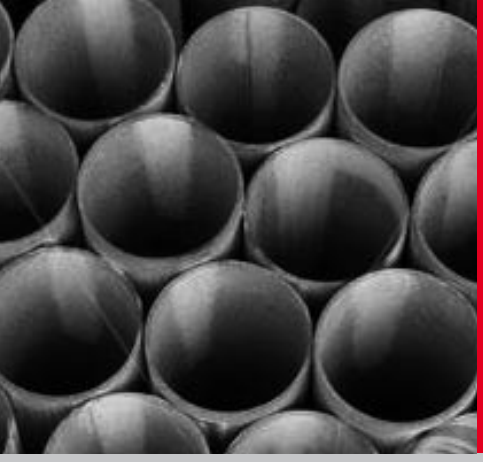
Useful formulas:

Approximate linear weight

$$M = 0{,}02466\ (D\text{-}wt) \times wt\ [kg/m]$$

D - exterior diameter of the pipe [mm]

wt - wall thickness [mm]



LONGITUDINALLY WELDED PIPES

Welding type	HFI	ERW
Manufacturing standards:	EN 10208-1, EN 10208-2, DIN 1626, EN 10219, API Spec 5L, ASTM A53, EN 10217-1,2, EN 10224	DIN EN 10219, DIN 17120, DIN 1626 EN 10217-1-5, EN 10224
Diameter range	114,3…406,4 mm	559…2020 mm
Wall thickness	3,2…16,0 mm	8,0…17,5 mm
Delivery lengths	6…17,5 m	5,2….8,2 m
Pipe ends	Soft/straight or beveled	
Material	solid steel, alloyed and low alloy steel, carbon steel and special steels	
Exterior surface	bare (uncovered), or covered with a corrosion protection layer of extruded poliethylene, or any other type of corrosion protection	
Interior surface	Bare or with cemented liner	

Useful formulas:

Approximate linear weight

$$M = 0{,}02466\ (D\text{-}wt) \times wt\ [kg/m]$$

D - exterior diameter of the pipe [mm]

wt - wall thickness [mm]

SPIRAL WELDED PIPES

Manufacturing standards:

petrol and gas:	API 5 L, DIN 17172, GOST 20295, EN 10208-2, ISO 3183
water:	EN 10217-1, DIN 1626-2460, BS 534, UNI 6363, EN 10224
general use:	BS 3601, DIN 1626
pillars:	ASTM A 252, EN 10219-2
Diameter range:	Exterior diameter between 219,1 mm … 3048 mm
Wall thickness:	4,0 … 26,0 mm
Delivery lengths:	4 m … 18 m
Pipe ends:	soft / straight or beveled
Material:	solid steel, alloyed and low alloy steel, carbon steel and special steels
Exterior surface:	bare (uncovered), or covered with a corrosion protection layer of extruded polyethylene, or any other type of corrosion protection
Interior surface:	bare or with cemented liner
Fields of use:	petrol, gas and water pipelines, pillars, metallic structures, compressed air pipes, liquid hydrocarbon transport in refineries.

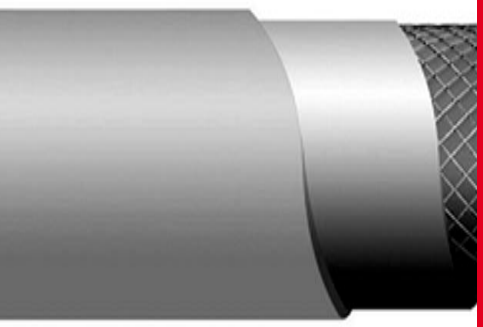
Useful formulas:

Approximate linear weight

$$M = 0{,}02466\ (D\text{-}wt) \times wt\ [kg/m]$$

D - exterior diameter of the pipe [mm]

wt - wall thickness [mm]



POLYETHYLENE COATED PIPES

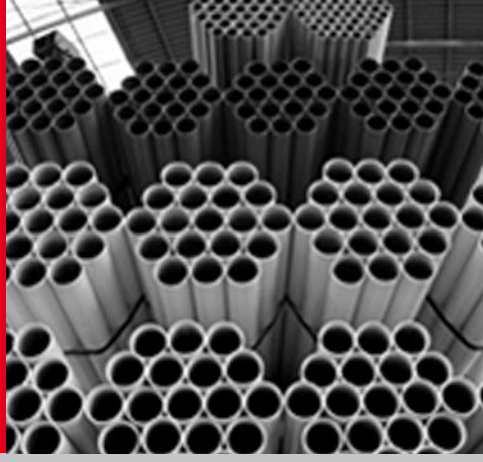
Covering the pipes with extruded polyethylene ensures better mechanical characteristics, a higher resistance to accidents and strikes occurred during manipulation. The protective layer ensures better mechanical characteristics, both for pipes used at high temperatures and pipes used at low temperatures.

Manufacturing process for steel pipes covered with extruded polyethylene according to UNI EN 9099 and DIN 30670:

1. The exterior surface is cleaned by sandblasting;
2. The exterior surface is heated to 180 °C;
3. It is covered with a primer - support for adhesives;
4. The surface is covered with adhesives by extruding;
5. It is immediately covered with a layer of polyethylene, also by extruding;
6. The surface of the pipe is cooled in a water tunnel;
7. The continuity of the surface is tested by passing the pipe through a current of 25.000 V;
8. The obtained surface is smooth, solid and adheres to the surface of the pipe.

Types	Dimensions range		Standards	Fields of use	Delivery condition	Delivery lengths
	Wall thickness mm	Exterior diameter mm				
Poliethylene covered pipes for gas, water and petrol transport	1.8	26,7…114,3	UNI EN 10208-1, UNI EN 10208-2	Weldless pipes, welded pipes : transport and distribution of natural gas, petrol and water	Straight or threaded ends	lengths 4-7 m (weldless); 6 m (welded)
Poliethylene (or FBE epoxy resin) covered pipes for methane gas transport	1,8 … 3 mm	60,3…1016,0	UNI EN 10208-1, UNI EN 10208-2, API 5L	Transport and distribution of natural gas; petrochemical industry	Straight or threaded ends, with caps	lengths 10-12 m
Poliethylene covered pipes for water transport	1,8 … 3 mm	60,3…1016,0	UNI EN 10224; UNI 6363/84	Transport of water	Straight or threaded ends, with caps	lengths 10-12 m
Poliethylene covered pipes for gasand petrol transportl	1,8 … 3 mm	60,3…1016,0	API 5L	Transport of natural gas and petrol	Straight or threaded ends, with caps	lengths 10-12 m

GALVANIZED PIPES, PAINTED PIPES



Types	Dimensions range		Standards	Fields of use	Delivery condition	Delivery lengths
	Wall thickness mm	Exterior diameter mm				
Galvanized welded or weldless pipes for natural gas and water transport	2,0-4,0	17,4…114,9	EN 10240-A1; EN 10255 (ISO 65)	Transport of natural gas and water	Straight ends, or according to ISO 7/1, DIN 2999; with caps according to ISO 50, DIN 2986	
Galvanized welded pipes for natural gas and water transport	2,3…5,0	17,5…166,5	EN 10240-A1; EN 10255 (DIN 2440)	Transport of natural gas and water	Straight ends, or according to ISO 7/1, DIN 2999; with caps according to ISO 50, DIN 2986	
Galvanized round or rectangular pipes	1,5…6 mm (round); 1,5 … 4 mm (square)	18 … 168,3 mm (round); 30x20…100x60 (square)	DIN 2394 (round); EN 10219 (square)	General industrial use	With threaded or straight ends	3,8…7,5 m ; cut to lengths according to orders

The painting of the pipes is made on the interior/exterior by applying an epoxy powder on the surface of the pipes which is heated to minimum 200 °C.

The minimum thickness of the paint layer is of 50 microns.

Purpose: protective treatment.

It is applied both on weldless and longitudinally welded pipes.

Types	Dimensions range		Standards	Fields of use	Delivery lengths
	Wall thickness mm	Exterior diameter mm			
Red painted pipes	2,6…7,1	21,8…323,9	UNI 5634/97; UNI EN 10208-1; UNI EN 10224- UNI 6363/84; UNI 8863 - DIN 2440 - EN 10255; UNI EN 10216-1	Civil or industrial use, for fireproof systems (sprinklers)	6 m pipes DIN 2440 EN 10255); 6-12 m pipes DIN 1629/2448 EN 10216-1
Green or blue painted pipes				For various civil or industrial lines and pipelines: machine construction industry, chemical industry, installations, air conditioning, naval industry, irigations etc.	
Yellow painted pipes				For distribution of methane gas	

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