

Congo Piping SAS

One Stop Solution for Piping

HDPE PIPES AND FITTINGS

- Manufacturing • Supply
- Installation • After-Sales Service



SABS

South African Bureau of Standards



Performance • Persistence • Partnership

About Us

CONGO PIPING SAS was founded in the year 2021. It is part of the prestigious Vinmart Group which has presence across 3 continents in different sectors.

The state-of-the-art manufacturing facility is located at MES industrial area in Lubumbashi, Haut-Katanga province, DRC. The modern infrastructure was developed under the guidance of reputed engineering company Mining engineering services.



We have strong logistics support from our Group Companies in China, India, UAE, Tanzania, Zambia, and South Africa. We also have large warehousing facilities and an efficient delivery system across African Region.

Global Presence of Vinmart Group

Congo Piping SAS
Une solution unique pour la tuyauterie

Vinmart
AFRICA | CANADA | CHINA | DUBAI | U.A.E. | HONGKONG | INDIA



Our Associates across the globe

VINMART LTD
Tanzania - Dar Es - Salaam
P.O. Box 77007, 419, 4th floor, Harbour View Tower (J.M Mail), Samora avenue Road, Dar Es Salaam, Tanzania

VINMETAL SYNERGIES FZCO
U.A.E - Dubai
Room - 908, JAFZA VIEW 18, Post Box 263104, Sheikh Zayed Road, Jebel Ali, Dubai UAE

EXCELSOURCE INTERNATIONAL PVT. LTD
INDIA - VODODARA
301/302, Sampatti Complex Sardar Baug Lane, Race Course, VADODARA - GUJARAT. 39007, INDIA

VINMART
CHINA - Gaungzhou
1707, R&F Tian He Commercial Building, Lin He Dong Road, Opp, Guagdong, Tobacco Building, Tian He District, Guangzhou - PIN 510610, China

METMIN LTD
ZAMBIA - KITWE
P.O. BOX 23566, Plot No. 3709, Mansa Road, Light Industrial Area, Kitwe - Zambia.

ROSVIN PTY LTD
SOUTH AFRICA
The form Building, 15th Floor, 2 Maude Street, Sandton 2196

Our Manufacturing Facility In Lubumbashi, DR Congo

Line 1 | High Efficiency Resin drying Tower



Line 2 | Extruder
315 mm upto 630 mm



Line 1 | Extruder
315 mm upto 900 mm



Line 2 | Downstream Machine



Line 1 | Downstream Machine



Line 3 | Extruder
110mm upto 315 mm OD



Line 1 | Quenching and Tractor Machine



Line 3 | Downstream Machine



Our Manufacturing Facility
In Lubumbashi, DR Congo



Line 4 Extruder And Downstream
20mm to 110mm OD



Double Station Pipe Winder-1
20 mm to 63mm



Single Station Pipe Winder-2
75 mm to 110 mm



Single Station Pipe Winder-3
110 mm to 180 mm



Multi Angle Pipe Cutter



Multi Angle Fitting Welding Machine



Arced Surface Cutter



Saddle Fusion Welding Machine

QA and QC Facility (Testing Laboratory)



Fully Equipped Testing Laboratory

List of Laboratory Equipment

- **Microscope:** For checking carbon dispersion
- **Hot plate :** For preparing samples to be checked at microscope
- **Sample cutter:** Used for sample preparation
- **Tensile tester :** For checking tensile strength
- **Moisture content analyzer :** To check Moisture content
- **Melt flow index tester:** To check flow property of resin
- **Carbon black content tester :** For checking % of carbon black in resin and pipes
- **Oxidation induction time tester :** To check oxydation induction time of resin
- **Density Tester:** To check density of the resin

Various Tests Conducted on Raw Materials

- **Melt flow rate/ index (MFR)**
- **Carbon black content (CBC)**
- **Carbon black dispersion (CBD)**
- **Compound density**
- **Oxidation induction time (OIT)**

Products & Services



HDPE Pressure Pipes



HDPE Telecommunication Pipes



PPR Pipes Hot and Cold Water Supply

Fittings Range

Congo Piping SAS has a wide range of butt-weld, compression, electrofusion and socket-weld fittings. All fittings are made from PE100 and sizes range from 32mm to 630mm (Depends on fittings). All moulded fittings conform to various international quality standards and certification.

One of the greatest features of HDPE pipe is that a wide range of jointing systems are available to suit any application. The jointing systems can be divided into two main categories with further sub-divisions in each category.



Moulded Stubs



Moulded HDPE Flanges



HPDE blind flanges



Moulded Electrofusion HDPE Fittings



Butt Fusion Moulded Pipe Fitting

Pre Fabricated Fittings



Moulded Fittings Range

1. Injection Moulded Fitting

- » Couplers
- » Tees
- » Cross
- » Reducers
- » Flanges
- » Bend



2. Compression Fitting

- » Couplers
- » 45 Degree Elbow (Male/Female)
- » Tees (Reducing/Female/Male)
- » Endplugs
- » Flanged Adaptor
- » Reducing Coupler
- » Male/Female Adaptor
- » PP Flanges



3. PE100 Electrofusion Fitting

- » Couplers
- » Electrofusion Reducers
- » Electrofusion Tees
- » Electrofusion Elbows
- » Electrofusion Branch Saddles
- » Electrofusion Tapping Saddles



4. Clamps Saddles

- » Reinforced Saddles
- » Unreinforced Saddles
- » All Other Saddles Available on Request



Advantages of HDPE Pipes

Light Weight

- » Easy handling and speedy installation of pipes.

» Toughness and Flexural Strength

Due to excellent impact resistance, it can withstand various loads like earth movement, traffic load etc. It can be safely used for low temperatures up to -40°.

» Chemical Resistance

Excellent resistance to most corrosive chemicals, acid and alkalines.

- » Telescoping pipes of several diameters is a clever option to lower transport costs.

- » Joining pipes manually with simple tools.

- » No need of special or heavy equipment to distribute pipes or system elements on site. Most pipes can be handled manually.

- » Trenchless installation

» Smooth Inner Surface

This reduces frictional losses and hence saves energy. Capable of conveying abrasive materials like slurry, sand, boiler ash, ores, food grains etc.

Our Pipes Range

SANS -4427-2

Material Grade PE 100

Standard Dimension Ratio (SDR)			SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4	
Nominal Pressure PE 100			PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20		PN 25	
Nom Size (mm)	MEAN OUTER DIAMETER		MAXIMUM OUT OF ROUNDNESS (OVALITY)		WALL THICKNESS		WALL THICKNESS		WALL THICKNESS		WALL THICKNESS		WALL THICKNESS		WALL THICKNESS		WALL THICKNESS		WALL THICKNESS	
	MIN	MAX			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
20	20	20,3	1,2												2,0	2,3	2,3	2,7	3,0	3,4
25	25	25,3	1,2										2,0	2,3	2,3	2,7	3,0	3,4	3,5	4,0
32	32	32,3	1,3								2,0	2,3	4,2	2,8	3,0	3,4	3,6	4,1	4,4	5,0
40	40	40,4	1,4							2,0	2,3	2,4	2,8	3,0	3,5	3,7	4,2	4,5	5,1	5,5
50	50	50,4	1,4					2,0	2,3	2,4	2,8	3,0	3,4	3,7	4,2	4,6	5,2	5,6	6,3	6,9
63	63	63,4	1,5					2,5	2,9	3,0	3,4	3,8	4,3	4,7	5,3	5,8	6,5	7,1	8,0	8,6
75	75	75,5	1,6					2,9	3,3	3,8	4,1	4,5	5,1	5,6	6,3	6,8	7,6	8,4	9,4	10,3
90	90	90,6	1,8					3,5	4,0	4,3	4,9	5,4	6,1	6,7	7,5	8,2	9,2	10,1	11,3	12,3
110	110	110,7	2,2					4,2	4,8	5,3	6,0	6,6	7,4	8,1	9,1	10,0	11,1	12,3	13,7	15,1
125	125	125,8	2,5					4,8	5,4	6,0	6,7	7,4	8,3	9,2	10,3	11,4	12,7	14,0	15,6	17,1
140	140	140,9	2,8					5,4	6,1	6,7	7,5	8,3	9,3	10,3	11,5	12,7	14,1	15,7	17,9	19,2
160	160	161,0	3,2					6,2	7,0	7,7	8,6	9,5	10,6	11,8	13,1	14,6	16,2	17,9	19,8	21,9
180	180	181,1	3,6					6,9	7,7	8,6	9,6	10,7	11,9	13,3	14,8	16,4	18,2	20,1	22,3	24,6
200	200	201,2	4					7,7	8,6	9,6	10,7	11,9	13,2	14,7	16,3	18,2	20,2	22,4	24,8	27,4
225	225	226,4	4,5					8,6	9,6	10,8	12,0	13,4	14,9	16,6	18,4	20,5	22,7	25,2	27,9	30,8
250	250	251,5	5,0					9,8	10,7	11,9	13,2	14,8	16,4	18,4	20,4	22,7	25,1	27,9	30,8	34,2
280	280	281,7	9,8					10,7	11,9	13,4	14,9	16,6	18,4	20,6	22,8	25,4	28,1	31,3	34,6	38,3
315	315	316,9	11,1	7,7	8,6	9,7	10,8	12,1	13,5	15,0	16,6	18,7	20,7	23,2	25,7	28,6	31,6	35,2	38,9	43,1
355	355	357,2	12,5	8,7	9,7	10,6	12,1	13,6	15,1	16,9	18,7	21,1	23,4	26,1	28,9	32,2	35,6	39,7	43,8	48,5
400	400	404,4	14	9,8	10,9	12,3	13,7	15,3	17,0	19,1	21,2	23,7	26,2	29,4	32,5	36,3	40,1	44,7	49,3	54,7
450	450	452,7	15,6	11,0	12,2	13,8	15,3	17,2	19,1	21,5	23,8	26,7	29,5	33,1	36,6	40,9	45,1	50,3	55,5	61,5
500	500	503,0	17,5	12,3	13,7	15,3	17,0	19,1	21,2	23,9	26,4	29,7	32,8	36,8	40,6	45,4	50,1	55,8	61,5	
560	560	563,4	19,6	13,7	15,2	17,2	19,1	21,4	23,7	26,7	29,5	33,2	36,7	41,2	45,5	50,8	56,0	62,5	68,9	
630	630	633,8	22,1	15,4	17,1	19,3	21,4	24,1	26,7	30,0	33,1	37,4	41,3	46,3	51,1	57,2	63,1	70,3	77,5	
710	710	716,4		17,4	19,3	21,8	24,1	27,2	30,1	33,9	37,4	42,1	46,5	52,2	57,6	64,5	71,1	79,3	87,4	
800	800	807,2		19,6	21,7	24,5	27,1	30,6	33,8	38,1	42,1	47,4	52,3	58,8	64,8	72,6	80,0	89,3	98,4	
900	900	908,1		22,0	24,3	27,6	30,5	34,4	38,3	42,9	47,3	53,3	58,8	66,2	73,0	81,7	90,0			

PE Saddle Fittings Configuration

Main Pipes and Branch Pipes

ISO4427, AS/NZS4130, DIN8074, GB/T13663-2000

Branch pipe Main pipe	315	280	250	225	200	180	160	140	125	110	90	75	63	50
630	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
560		⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
500			⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
450			⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
400					⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
355						⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
315							⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
280								⊙	⊙	⊙	⊙	⊙	⊙	⊙
250									⊙	⊙	⊙	⊙	⊙	⊙
225									⊙	⊙	⊙	⊙	⊙	⊙
200										⊙	⊙	⊙	⊙	⊙
180											⊙	⊙	⊙	⊙
160												⊙	⊙	⊙
Groups Qty	1	2	4	4	5	6	7	8	10	11	12	13	13	13

Note: Branch Pipe size ≤ 1/2 of Main Pipe Size

Properties of HDPE pipes which make them useful in various applications



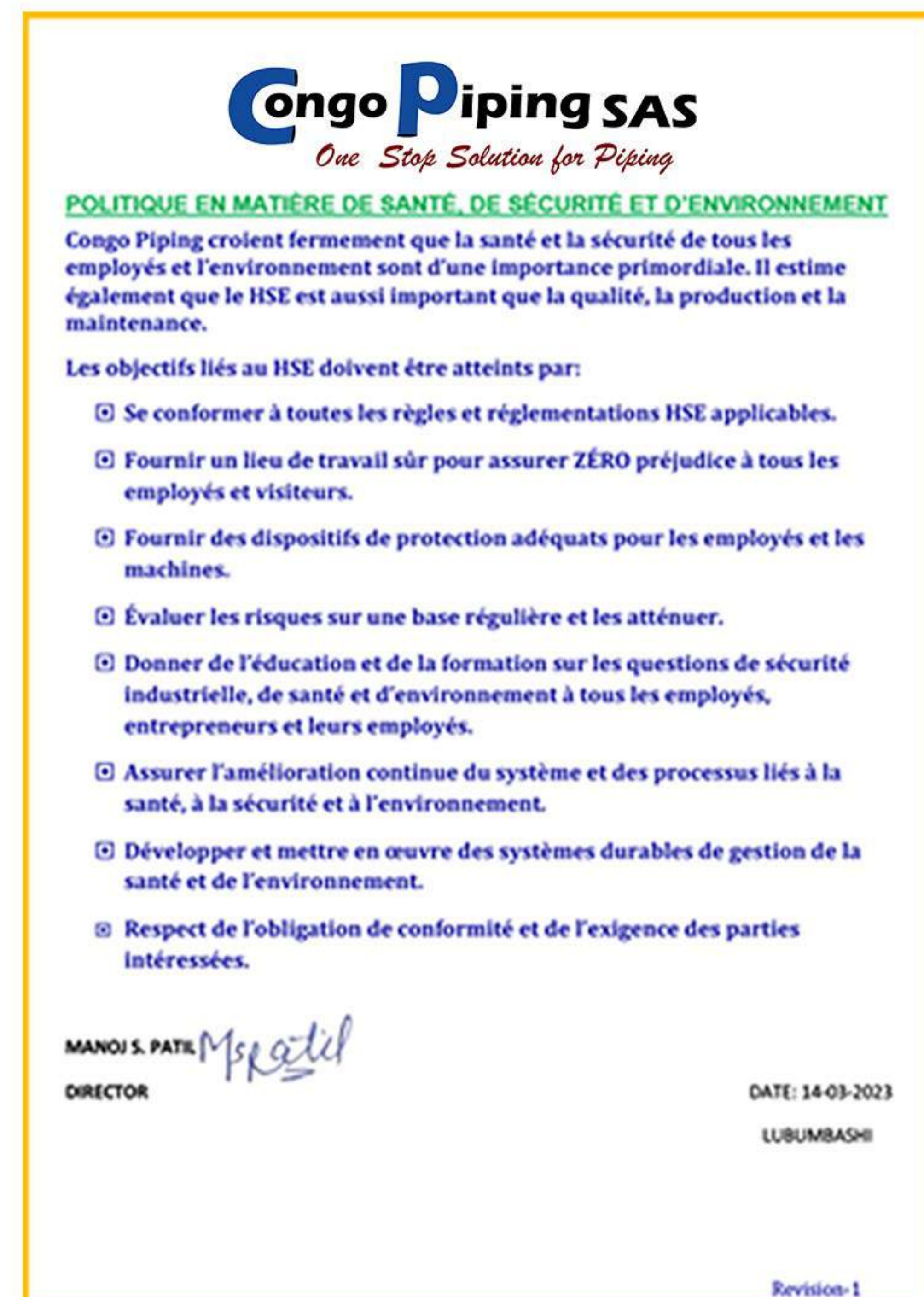
MECHANICAL PROPERTIES

Physical Properties	Test Mode	Values	Unit
Shore D. Hardness	ISO 868	61	
Tensile @ Yield	ISO 527	26	Mpa
Ultimate Tensile	ISO 527	35	MPa
Ultimate Elongation	ISO 527	>600	%
Elastic Modules	ISO 527	900	Mpa
Flexural Stress [3.5% Deflection]	ISO 178	19	Mpa
Thermal Stability 210° C	ISO 10838	>60	min
Carbon Black Content	ASTM D 1603	>2	%

PROPERTIES OF PE COMPOUND

PROPERTIES	REQUIREMENT	TEST METHOD	UNIT
Density	≥0.930	ISO 1183-2	GM/CC
Melt flow Rate	0.20 - 1.10	ISO 1133	GM/10MIN
Carbon Black Content	2 - 2.5	ISO 6964	%
Oxydation induction time	≥ 20	ISO 11357-6	MIN

Our Certificates



Drainage & Sewerage

- ▣ Gravity lines of any kind.
- ▣ Wastewater networks, rainwater systems.
- ▣ Combined sewers.
- ▣ Drainage systems for premises.
- ▣ Special solutions for industries and communities.
- ▣ Open-construction exchange and renewal procedures.
- ▣ Special constructions for stormwater.



Mining Applications

- ▣ Leach Lines
- ▣ Coal Decant Systems
- ▣ Mine Drainage
- ▣ Coal Tailings
- ▣ Slurry and Sludge Transport
- ▣ De-watering
- ▣ Dust Suppression
- ▣ Sand Stowing
- ▣ Fly-Ash Slurry and others
- ▣ Material Handling-Pneumatic Conveyance of particulates



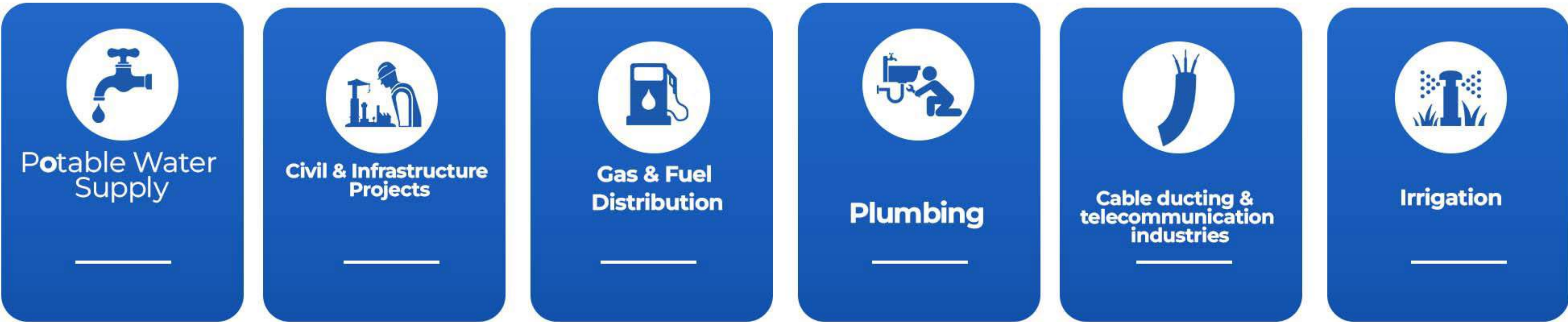
Fire Protection Applications



Congo Piping SAS manufactures approved PE pipes and fitting adhering to ISO 4427 standards with pressure rating SDR9 & SDR11. Our range of approved fitting includes elbows, TEEs, etc. Our firefighting pipes are produced based on standards under stringer quality control. Our pipes & fittings are tested on each stage to comply with quality and standards.

- Usage: Polyethylene (PE) pipes for firefighting applications
- Size Range: 50mm to 315mm
- Pressure Rating: PN16, PN20
- Standard Dimensional Ratio: SDR11, SDR9
- Available in 6m, 12m length, and rolls

Other Sectors





Our Valuable Customers

Supply Customers

- KAMOA COPPER SA
 - MMG
 - MUMI
 - DLM SARL
 - MMR
 - GO CONGO
 - AMAZING MATOTO SOLUTION SARL
 - SOMIKA
 - STL
 - VACC TECHNICAL LTD
 - KITOBO
 - AMS
 - KCC
 - HUA XI
 - METAL MINE
 - RUASHI MINING
 - KIMIN
 - KKS ENTERPRISES
 - METALKOL
 - TFM
 - KALONGWE MINING
 - CHEMAF
 - GOLDEN AFRICA
 - KICO
 - DHK SERVICES
 - RAINBOW SARL
- And many more



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