

# PIPES 01

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ESD PIPE

STANDARD PIPE

STAINLESS PIPE



## LOGIFORM PIPE

is steel pipe with a synthetic plastic resin coated outer surface.


### LOGIFORM PIPE는

표면에 합성 플라스틱을 피복한 스틸파이프입니다.

- Highly resistant heat level : Up to max. 100 degrees Celsius / 우수한 내열성 (100°C 까지 사용 가능, 제한적)
- Highly durable under the oily work environment / 우수한 내유성
- Relatively better chemical resistance / 화학적 안정성
- Less amount of the poisonous substance emitted from the use of the Synthetic resin / 무독성







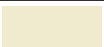
## 파이프 구조











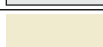

|   |  |                                     |
|---|--|-------------------------------------|
|  <b>Packing Unit</b> | <b>LP</b>                              | <b>- 1 1 0 0   V</b>                |
|   | LOGIFORM<br>PRODUCT<br>CODE<br>(파이프분류) | THICKNESS COLORS<br>(파이프두께) (파이프컬러) |
| · 1 Bar (1본) = 4M<br>· 1 Bundle (1묶음) = 10 Bars   |  |                                     |

# PIPES (LOGIFORM PIPE STANDARD COLORS)

## STANDARD PRODUCTION LINE-UP

| DESCRIPTION     | COLOR |      |   | THICKNESS |      |      |      |      |      |
|-----------------|-------|------|---|-----------|------|------|------|------|------|
|                 |       |      |   | 0.7T      | 0.9T | 1.0T | 1.1T | 1.4T | 2.0T |
| LOGIFORM PIPE   | IVORY | (IV) |  |           |      | ●    |      | ●    | ●    |
|                 | WHITE | (WH) |  |           |      | ●    |      | ●    | ●    |
|                 | GRAY  | (GR) |  |           |      | ●    |      | ●    | ●    |
|                 | BLUE  | (BL) |  |           |      | ●    |      | ●    | ●    |
|                 | BLACK | (BK) |  |           |      | ●    |      | ●    | ●    |
| CONDUCTIVE PIPE | BLACK | (BK) |  |           |      | ●    |      | ●    | ●    |
| SLIDE PIPE      | IVORY | (IV) |  |           |      | ●    |      | ●    | ●    |
| STAINLESS PIPE  | 200   |      |   | ●         | ●    |      | ●    |      |      |
|                 | 300   |      |   |           |      |      | ●    |      |      |
|                 | 400   |      |   | ●         | ●    |      | ●    |      |      |

## OPTIONS

| DESCRIPTION     | COLOR       |      |  | THICKNESS |      |      |      |
|-----------------|-------------|------|--|-----------|------|------|------|
|                 |             |      |  | 1.0T      | 1.4T | 1.5T | 2.0T |
| LOGIFORM PIPE   | DEEP GRAY   | (EG) |  | ●         | ●    |      | ●    |
|                 | BLACK       | (BK) |  | ●         | ●    |      | ●    |
|                 | SKY BLUE    | (SB) |  | ●         | ●    |      | ●    |
|                 | DARK BLUE   | (DB) |  | ●         | ●    |      | ●    |
|                 | GREEN       | (GN) |  | ●         | ●    |      | ●    |
|                 | RED         | (RD) |  | ●         | ●    |      | ●    |
|                 | DARK YELLOW | (DY) |  | ●         | ●    |      | ●    |
|                 | DARK GRAY   | (DG) |  | ●         | ●    |      | ●    |
|                 | BROWN       | (BN) |  | ●         | ●    |      | ●    |
| CONDUCTIVE PIPE | BLACK       | (BK) |  | ●         | ●    |      | ●    |
| SLIDE PIPE      | GRAY        | (GR) |  | ●         | ●    |      | ●    |
| ALUMINUM PIPE   | SILVER      |      |  |           |      | ●    |      |
| ANTISTATIC PIPE | IVORY       | (IV) |  | ●         | ●    |      | ●    |
|                 | GRAY        | (GR) |  | ●         | ●    |      | ●    |
| PEARL PIPE      | GOLD        | (GD) |  | ●         | ●    |      | ●    |
|                 | SILVER      | (SV) |  | ●         | ●    |      | ●    |

※ Color / Quantity / Lead time / Stock / etc. must be discussed prior to purchase

※ For any other inquiry, please contact us at [hbl@hbjoint.com](mailto:hbl@hbjoint.com)

# LOGIFORM PIPE



| PRODUCT CODE | THICKNESS (Steel) | WEIGHT   |
|--------------|-------------------|----------|
| LP-1100      | 1t                | 676g/m   |
| LP-1140      | 1.4t              | 930g/m   |
| LP-1200      | 2t                | 1,265g/m |

EX)LP-1100IV



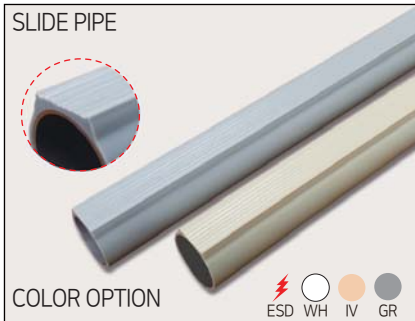
| PRODUCT CODE | THICKNESS (Steel) | WEIGHT   |
|--------------|-------------------|----------|
| CP-1100      | 1t                | 676g/m   |
| CP-1140      | 1.4t              | 930g/m   |
| CP-1200      | 2t                | 1,265g/m |

EX)CP-1100BK



| PRODUCT CODE | THICKNESS (Steel) | WEIGHT   |
|--------------|-------------------|----------|
| AP-1100      | 1t                | 676g/m   |
| AP-1140      | 1.4t              | 930g/m   |
| AP-1200      | 2t                | 1,265g/m |

EX)AP-1100GR



| PRODUCT CODE | THICKNESS (Steel) | WEIGHT   |
|--------------|-------------------|----------|
| SL-1100      | 1t                | 767g/m   |
| SL-1140      | 1.4t              | 1,021g/m |
| SL-1200      | 2t                | 1,356g/m |

EX)SL-1100IV



| PRODUCT CODE                                  | THICKNESS (Stainless) | WEIGHT |
|---|-----------------------|--------|
| ST-1070<br>Grade classification : 200/400     | 0.7t                  | 448g/m |
| ST-1090<br>Grade classification : 200/400     | 0.9t                  | 570g/m |
| ST-1110<br>Grade classification : 200/300/400 | 1.1t                  | 708g/m |

EX)ST-1070



| PRODUCT CODE | THICKNESS (Aluminium) | WEIGHT |
|--------------|-----------------------|--------|
| AL-1150      | 1.5t                  | 380g/m |



| PRODUCT CODE | THICKNESS (Aluminium) | WEIGHT  |
|--------------|-----------------------|---------|
| ASP-1120     | 1.2t                  | 347g/4m |
| ASP-1200     | 2.0t                  | 415g/4m |
| ASP-1280     | 2.8t                  | 476g/4m |
| ACP-1120     | 1.2t                  | 720g/4m |

# PIPES

## ESD PIPE ⚡



- ANTISTATIC PIPE**
- Surface Resistance (표면저항)  
-  $10^8 \Omega \sim 10^{10} \Omega$
  - Color Option  
- Gray / Ivory



- CONDUCTIVE PIPE**
- Surface Resistance (표면저항)  
-  $10^3 \Omega \sim 10^6 \Omega$
  - Color Option  
- Black

## STAINLESS PIPE ⚡



- Easy to clean  
- 고광택, 먼지 미흡착
- Conductive  
- 정전기 미발생
- Highly resistant against oil and chemical substances  
- 내약품성 내식성임

· Stainless pipes of the grades other than 304 may be vulnerable to rust - 201, 400 계열은 습기가 많은 장소에서 녹이 발생할 수도 있음.

## COMPARISON TABLE OF LOGIFORM PIPE Vs. ABS COATED PIPE

| MEDICINE (약 품 명)        | RESULT (결과) |     | MEDICINE (약 품 명)        | RESULT (결과) |     |
|-------------------------|-------------|-----|-------------------------|-------------|-----|
|                         | Q-PIPE      | ABS |                         | Q-PIPE      | ABS |
| WD-20(방청유)              | △           | △   | Malic acid(10%)(사과산)    | ○           | ○   |
| Sodium chloride(땀)      | ○           | X   | Menthol(소독약)            | ○           | △   |
| Break oil               | ○           | X   | Mercury(수은)             | ○           | ○   |
| UV(자외선)                 | △           | △   | Mercury chloride(염화수은)  | ○           | ○   |
| Cutting oil(절삭유)        | ○           | X   | Mesityl oxide(불포화케톤)    | △           | X   |
| Table ware cleaser(식기용) | ○           | △   | Methanol(유기알콜)          | ○           | △   |
| Washable cleaser(세탁용)   | ○           | ○   | Methylene chloride(M.C) | △           | X   |
| Toilet cleaser(화장실용)    | ○           | ○   | Thynner(신너)             | ○           | X   |
| M.E.K                   | △           | X   | Acetone(리무버)            | ○           | X   |
| Ethylene glycol(부동액)    | ○           | ○   | Paint                   | ○           | X   |
| Missoin oil(기어유)        | ○           | X   | Animal fat oil(동물성기름)   | ○           | △   |
| Toluene                 | ○           | X   | Vegetable oil(식물성기름)    | ○           | ○   |

- ○ = Negative - High Chemical Resistance (변화없음 - 내화학성 강함)
- △ = Partially affected but usable - Limiting Chemical Resistance (부분적으로 변화는 있으나 사용가능 - 제한적 내화학성)
- X = ABS resin melted or crack occurred - No chemical resistance (Coating층이 녹거나 Crack발생 - 내화학성 없음)
  - ① Type of test : Spread and submerge (테스트 방법 : 침전반응 방식)
  - ② Test cycle : Min. 30days (테스트 기간 : 30일 이상)
  - ③ Temperature : 20~30 degrees Celsius (사용 온도에 따라 화학성은 상이함, 통상온도 조건 테스트 시행 20~30℃)

○ = PASS, △ = ACCEPTABLE, X = FAIL