

## LINING

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### 1. 가

(Chemical)  
 가 ,  
 가  
 VESSEL  
 (Alloy)  
 가  
 PROJECT 가  
 가 (Alloy)  
 (耐久性)  
 (Rubber), (Lining)  
 RUBBER LINING, FLAKE LINING  
 LINING  
 TANK PIPE 가

가  
 LINING( ) LINING  
 (FLAKE LINING),  
 (RUBBER LINING), FRP  
 (GLASS LINING),  
 LINING  
 가 FLAKE LINING  
 RUBBER LINING  
 2.1 FLAKE LINING  
 RESIN LINING RESIN  
 1 ~ 3mm FRP LINING  
 가 FLAKE LINING  
 FLAKE RESIN  
 PASTE COATING 1 ~ 2mm  
 FLAKE LINING GLASS FLAKE  
 POLYESTER, VINYLESTER EPOXY  
 RESIN  
 (1mm)

### 2. LINING( ) ?

100 ), GAS  
 가

#### 1) FLAKE LINING

가) , 가 , 가

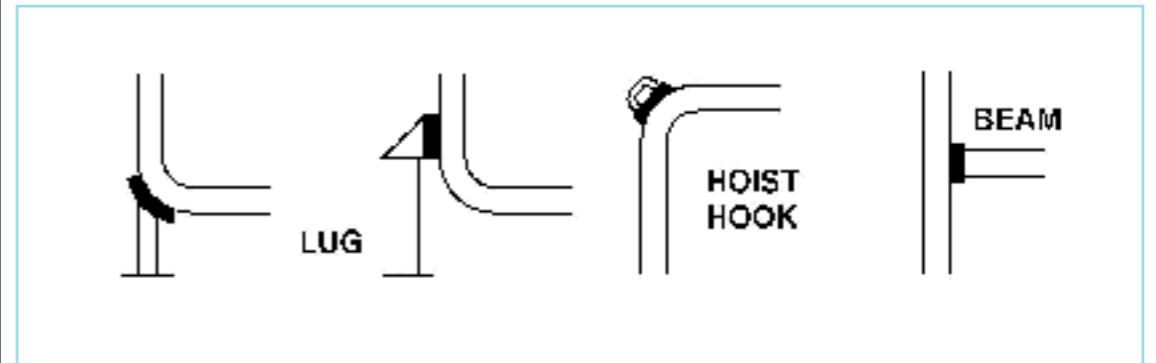
)  
 )  
 ) 가 가

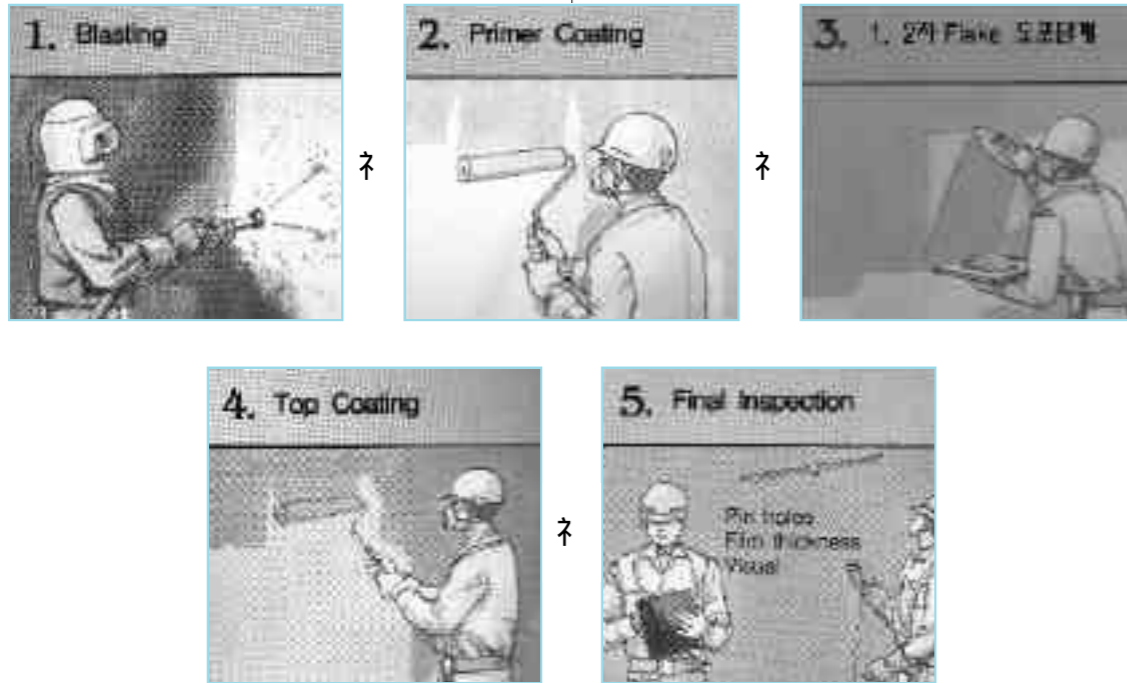
#### 2) FLAKE

< 1> FLAKE				
FLAKE#3	ISOPHTAL POLYESTER		80	90
FLAKE#4	BISPHENOL POLYESTER		80	90
FLAKE#5H	HET POLYESTER		100	120
FLAKE#6R	VINYLESTER		90	100
FLAKE#6H	VINYLESTER		120	150
FLAKE#6S	VINYLESTER		110	130
FLAKE#7H	VINYLESTER		110	140
FLAKE#100	EPOXY		70	80

#### 3) FLAKE LINING FLAKE LINING TROUBLE

가) FLAKE LINING 가  
 LUG, HOIST RING, SUPPORT  
 BEAM  
 ( 1 )  
 ) LINING  
 )  
 ) SPATTER  
 LINING  
 LINING 1 mm  
 GRINDING  
 ) , , FLAKE LINING 가  
 , FLAKE LINING  
 ( )  
 , GAS 가150 FLAKE LINING  
 ) LINING  
 ) LINING





[ 2] FLAKE LINING

#### 4) FLAKE LINING

- 가) SAND BLAST : 4 GRIT 6 ~ 8kg/cm<sup>2</sup>  
BLASTING (FINISHING) SSPC-SP-10, Sa 2 1/2 NEAR WHITE METAL
- ) PRIMER : FLAKE#6R PRIMER  
ROLLER 1
- ) 1 FLAKE : FLAKE#6R 1  
FLAKE ROLLER  
SPRAY
- ) 2 FLAKE : 1 FLAKE
- ) TOP COAT : FLAKE#6R TOP COAT  
ROLLER 1 ~ 2
- ) : PINHOLE , THICKNESS
- ) : 5 , 10  
60 4 , 80 2

#### 2.2 (RUBBER LINING) FLAKE LINING RUBBER LINING SHOP ( ) RUBBER LINING SHOP

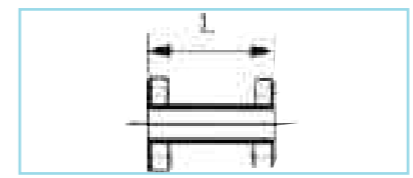
- 1)
- 가) - , 가
- ) - , 가
- )
- 가
- 2)
- 가) 가
- 가

< 2 >	
	( ) <sup>(1)</sup>
(NR)	-30 ~ +80
(SBR)	-30 ~ +80
(NR, SBR, NBR)	+100 <sup>(2)</sup>
(CR)	-20 ~ +100
(IIR)	-20 ~ +100
(CSM)	-5 ~ +120
(EPDM)	-20 ~ +100

(1) 가  
(2)

ex) , , , ,  
)  
2

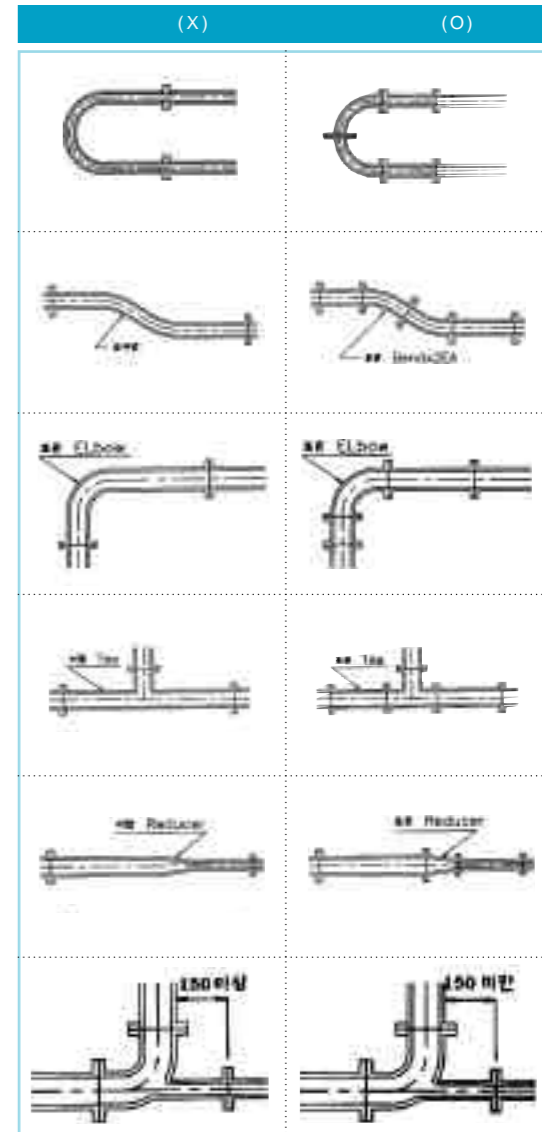
#### 3) PIPE FITTING RUBBER LINING 가 가 가) RUBBER LINING LINING 25A (1") ) LINING 가



< 3 > 가			
(D)	25A ~ 40A	50A ~ 400A	450A
PIPE (mm)	1" ~ 1.5"	2" ~ 16"	18"
(L)	3,000	6,000	8,000

- ) FITTING RUBBER LINING LINING  
가 가
- 가
- ) FLANGE LINING

가 RUBBER LINING  
가  
)  
) FLANGE  
FLANGE 가 LINING



[ 3] RUBBER LINING

# Technical Report

## 4) RUBBER LINING

가) - RUBBER LINING

가 가

)BLASTING -  
GRIT BLASTING

) - BLASTING  
가 30

)RUBBER SHEET - 가 (未加黃)

RUBBER SHEET  
RUBBER SHEET 가 가  
(Roller)

) - PIN-HOLE

PIN-HOLE

)가 - 가 RUBBER SHEET  
(所定) 가 , RUBBER SHEET

) - RUBBER LINING , PIN-HOLE  
HOLE , (硬度)

## 5) RUBBER LINING

< 4> RUBBER LINING	
	(BLISTER)
	(軟化, 硬化)
	가 ( 가 )
PIN-HOLE	(PIN-HOLE)
(打診)	( RUBBER LINING)

## 6) RUBBER LINING

가가 가

가 가

## ) RUBBER LINING

)  
PIN-HOLE (PIN-HOLE)

## 3. FLAKE LINING RUBBER LINING

LINING

LINING 가 FLAKE

LINING RUBBER LINING

( 5 )

가)STEEL 1.0x 10<sup>-5</sup>/  
FRAKE LINING 가 RUBBER LINING STEEL

RUBBER LINING 가

)LINING  
STEEL (grinding, Sand Blasting)

RUBBER LINING FRAKE

LINING 가가

F/L 가

)STEEL RUBBER LINING

RUBBER 20kg/cm<sup>2</sup> 80

FRAKE LINING 100

75%

가

가

< 5> LINING				
	FLAKE LINING	FRP LINING	RUBBER LINING	
	VINYLESTER	VINYLESTER	NR( )	NR( )
	1.63	1.8	1.0~1.6	1.2~1.8
GAS	120		80	80~110
	150			
	160	160	90	120
	2.0 x10 <sup>-5</sup> /	2.3 x10 <sup>-5</sup> /	2.8~22x10 <sup>-5</sup> /	3~7.5x10 <sup>-5</sup> /
	0.01g/m <sup>2</sup> 24hr mmHg (ASTM E96-66)	0.15g/m <sup>2</sup> 24hr mmHg (ASTM E96-66)	0.06~0.8% (ASTM D570-54) 23 24hr	
	400 kg/cm <sup>2</sup>	1000 kg/cm <sup>2</sup>	110~250 kg/cm <sup>2</sup>	400~700 kg/cm <sup>2</sup>
	800 kg/cm <sup>2</sup>	1600 kg/cm <sup>2</sup>		700~1000kg/cm <sup>2</sup>
	6.0%	6.0%( )	200~700%	5~40%
	500 g x 30cm DUPONT TESTER	500 g x 30cm DUPONT TESTER		
	45(BARCOL)	45(BARCOL)	30~90(JIS)	60~85(shore,D)
TABER CS-17( ) PLASTIC H-17( )	40mg cs-17 1000g 1000cycles	40mg cs-17 1000g 1000cycles	370mg cs-17 1000g 1000cycles	
	330mg H-18 1000g 1000cycles	330mg H-18 1000g 1000cycles	1640mg H-18 1000g 1000cycles	
SS	133 kg/cm <sup>2</sup>	133 kg/cm <sup>2</sup>	80 kg/cm <sup>2</sup>	50~80 kg/cm <sup>2</sup>
SUS 316	130 kg/cm <sup>2</sup>	130 kg/cm <sup>2</sup>		

LINING 가  
LINING

가 가

가  
EPC(Engineering, Procurement,  
Construction)

LINING

가

## TURN-KEY PROJECT

- 1.
- 2.