

# Applications & Specifications:

## OIL & GAS SECTOR



API 5L/ ISO 3183  
IS/ ISO 3183  
API 5CT  
API 5DP

## HYDROCARBON PROCESS INDUSTRY



ASTM : A-53, A-333, A-334,  
A-335  
BS : 3602 (Pt-I), 3603  
IS : 6286

## AUTOMOTIVE INDUSTRY



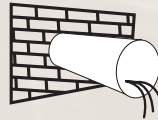
ASTM : A-519  
SAE : 1010, 1012,  
1020, 1040,  
1518, 4130  
DIN : 2391, 1629  
BS : 980, 6323 (Pt-V)  
IS : 3601, 3074

## BOILER, HEAT EXCHANGER, SUPER HEATER & CONDENSER



ASTM : A-106, A-178, A-179,  
A-192, A-209, A-210, A-213,  
A-214  
BS : 3059 (Pt-I & Pt-II),  
EN 10216 (Pt-I & Pt-II)  
3602 (Pt-1)  
IS : 1914, 2416, 11714, 4923  
DIN : 17175

## WATER & SEWAGE



IS : 1239 (Pt-I), 3589, IS 4270  
BS : 1387  
DIN : 2440, 2441

## MECHANICAL, STRUCTURAL, & GENERAL ENGINEERING



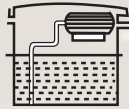
ASTM : A-500, A-501,  
A-519  
DIN : 1629, 1630,  
2391, 17100,  
17200  
BS : 980, 1775,  
3601, 6323  
IS : 1161, 3601, 9295

## RAILWAYS



IS : 1239 (Pt-I), 1161  
BS : 980  
RDSO : ETI / OHE / 11

## WATER WELL



IS : 4270  
ASTM : A-589

## HYDRAULIC CYLINDER



SAE : 1026, 1518  
IS : 6631  
DIN : 1629

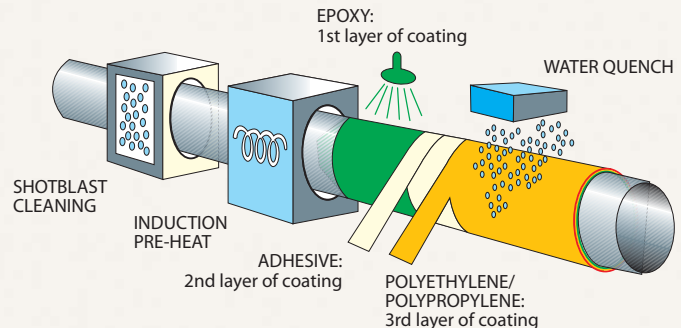
## BEARING INDUSTRY



SAE : 52100  
DIN : 100 Cr6

# Advantages of Coated Pipes:

The coat begins on Bare Pipe with surface preparation by abrasive blast cleaning, phosphoric acid treatment, chromate treatment prior to the application of coat followed by electrostatic fusion bonded epoxy layer as primer, adhesive as tie layer, followed by high density Polyethylene/ Polypropylene layer as top coat.



- Strong protective layer
- Long term chemical and mechanical resistance
- High mechanical impact strength and penetration resistance
- Increases life span of pipes more than 25 years
- Economy in the long term due to less repairing/ re-working

## Applications & Specifications:

- \* 3 LPE Coating (DIN 30670) for service temperature upto +80°C
- \* 3 LPP Coating (DIN 30678) for service temperature upto +110°C
- \* Single layer FBE Coating (Canadian CAN/CSA Z245-06/ NACE RP 0394) for service temperature upto +80°C
- \* Dual layer FBE Coating (Canadian CAN/CSA Z245-06/ NACE RP 0394) for service temperature upto +80°C
- \* Internal Flow coating (API RP 5L2/ISO 15741) for service temperature upto + 80°C
- \* Internal Solvent free epoxy (AWWA C 210/NF - French Specification & BS British Specification) for service temperature upto + 80°C



SPECIFICATIONS **Coating**

1) **Pipe Size Range for 3 LPE / 3LPP Coating**

A	Outer Dia	32.0 - 1250.00mm
B	Wall Thickness	Upto 25mm for all OD
C	Length	6 - 14 meters

2) **3 LPE / PP Coating Thickness (Layerwise)**

Sr No.	Layer	Coating Thickness
1	Epoxy Coating	150 - 300 microns
2	Adhesive Coating	200 - 400 microns
3	Polyethylene / Polypropylene	1.55 - 3.35mm
4	Total Thickness	1.80 - 3.70mm

3) **Pipe Size Range for Single Layer FBE Coating**

A	Outer Dia	32.0 - 1250.00mm
B	Wall Thickness	Upto 25mm for all OD
C	Length	6 - 14 meters

4) **Single Layer FBE Thickness**

Sr No.	Layer	Coating Thickness
1	FBE Thickness	400 - 500 microns

5) **Pipe Size Range for Dual FBE Coating**

A	Outer Dia	114.30 - 1250.00mm
B	Wall Thickness	Upto 25mm
C	Length	6 - 14 meters

6) **Dual FBE Thickness**

Sr No.	Layer	Coating Thickness
1	FBE Thickness (Anti-corrosive Layer)	400 - 500 microns
2	ARO Thickness (Hard Coat Layer)	400 - 500 microns
3	Total Thickness	800 - 1000 microns

7) **Pipe Size Range for Internal Coating**

A	Outer Dia	168.30 - 559.00mm
B	Wall Thickness	Upto 25mm
C	Length	6 - 14 meters

8) **Internal Coating Thickness**

A) Sr No.	Layer	Coating Thickness
1	Internal Flow Coating for flow improvement	60 - 100 microns
B) Sr No.	Layer	Coating Thickness
1	Internal Solvent free epoxy for corrosion protection	400 - 500 microns

# Pipe Fittings

MSL offers pipe fittings to cater to the Engineering and Petrochemical Industry requirements of high quality IBR Pipe Fittings.



## Product Range

The product range includes Seamless Carbon Steel and Alloy Steel, as per following details:

Products	Size
Elbows	1/2" NB to 14" NB
Reducers	1" NB to 14" NB
Tees	1" NB to 14" NB
Cups	1/2" NB to 14" NB
Stub Ends	1/2" NB to 14" NB
Flanges	1/2" NB to 14" NB
Socket Weld	Upto 2" NB
Nipples	Upto 4" NB
Couplings	Upto 4" NB

## Material Specifications

ASTM A 234 WPB WPC WP-1 WP12 WP11 WP22 WP5 WP9 WP91 and WPR  
 ASTM A 403 WP321 321H 304 304L 316 316L 347 and 347H  
 ASTM A 420 WPL-6 WPL-9 WPL-3 and WPL-8

# Authorized Dealer



For further information, please contact:

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