

# POLYMER IN IRON AND STEEL INDUSTRY

Plastic is everywhere whether it is a steel plant or any other industries there are different polymer products being used indifferent stage in entire steel plant whether it is a coke oven a blast furnace sinter plant HRM DRI CRM Wagon in all the areas some sort of polymer spares or consumable are used.



**ANULON®**

## COKE OVEN & BLAST FURNACE

### WHAT POLYMERS CAN BE USED?

When a coke oven or a Blast Furnace is fired, **Anulon-98** ZRG Zero residue Grade strips are inserted in between the furnace bricks to fill up the gap. When the bricks get thermally expanded on heating, these strips are sacrificed.

## COLD ROLLING MILL

### WHAT POLYMERS CAN BE USED?

Various kinds of polymers are used in different shapes for different purposes in the Cold Rolling Mill.

- **Anulon 118 Lining on Steel Rollers**
- **Anulon 115 Tong liners**
- **Anulon 115(O) Self lubricating pulleys for crane**
- **Anulon Saddles and pads for storing the steel rolls**
- **Anulon 115 and Anulon 94 Liner plates are put on transfer trucks that carry steel rolls in the plant**

## PICKLING

### WHAT POLYMERS CAN BE USED?

The complete pickling line has various polymer applications through out.

**Anulon 92** PP Tanks are used in the pickling line as **Anulon 92** is resistant to the chemicals used in the pickling process.

**Anulon 92** Scrubbers and Ducts

**Anulon 92** Pall Rings

**Anulon 92 and Anulon 92 HT** tanks are used to store chemicals safely

**Anulon 118** PU lining over steel rollers.

**PP/HDPE/PVDF Pipes, Sockets Tees and valves are used throughout the line for the transfer of chemicals from one place to another.**

## SINTER PLANT

### WHAT POLYMERS CAN BE USED?

#### **Anulon 94 and Anulon 94H Liners**

These liners are used inside Hopper and Chutes. Conveying of bulk materials via chutes and hoppers are often disrupted by cracking, freezing and bridging.

#### **WHY?**

- These polymer liners facilitates smooth flow of materials in the hopper.
- Excellent Impact Resistance
- Saves the mother plate of the hopper from getting damaged.

#### **Anulon 142 Phenolic Laminex Seals**

Inner and outer seal rings with rubber pads which are used in cooler seals of Sinter plant.

#### **Anulon 118 Polyurethane Screens and rollers**

These screeners are used in Sinter Plants for easy screening of material and have a very long lasting life. Anulon 118 Rollers are used as they have very high abrasion resistance and very high impact resistance property.

## More polymer applications

- **Anulon 98** HDPE Idlers and Rollers
- **Polycarbonate Roofing** Sheets for day light saving
- **Polycarbonate clear transparent compact UNBREAKABLE** sheets used for windshields and can be used at floor levels for safety purposes
- **Anuflex** transparent soft strip curtains
- **Anulon 98** Pond Liners

## HOT STRIP MILL

### WHAT POLYMERS CAN BE USED?

#### **Anulon 142 M&G Phenolic Laminate Strippers and Wipers**

**Anulon 142 M&G** wipers and strippers are used in stands of HSM. These sheets are laminated with special cotton fabric impregnated with phenolic resin and hot pressed under high pressure and temperature. Special additives are added while making the sheets for these strippers and wipers so as to increase its heat and wear resistance properties, thereby increasing the life of it. These strippers and wipers are machined from sheets and with our inhouse advanced machinery and our workforce, these can be made in any complex profiles as per customer's drawing/specification.

## PLASTIC ABHIYANTA

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