

Val-Coat® Series

High Performance Roll Coverings for Industry

Rubber Covered Rolls That Love to Run

Valley Roller's Val-Coat® Series of roll coverings have clearly been found to be superior to alternative roll coverings. This family of high performance covers has been designed to overcome the deficiencies of traditional roll covers. Val-Coat® covers have been proven to meet the wide range of performance parameters found within a variety of roll applications. Based on innovative rubber chemistry, these unique roll covers offer superior mechanical properties. In addition, Val-Coat® Series roll covers provide superior chemical resistance, excellent dynamic properties, and ultimately, significantly improved roll cover life.

Outstanding Wear Characteristics

- Outstanding Abrasion Resistance
- Improved Edge Wear
- Excellent Crown Retention
- Longer Roll Life
- Longer Time Between Re-Grind's

Superior Chemical Resistance

- Resistance to Hydrocarbons
- Resistances to Caustic Media
- Excellent Hardness Stability
- Ensures uniform, consistent coating

Unique Dynamic Properties

- Outstanding Hysteresis (Low Heat build-up)
- Outstanding Resiliency
- Outstanding Heat Resistance up to 350° F
- Superior Heat Aging
- Ideal in nip and doctor blade applications



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Outstanding Wear Characteristics

Val-Coat® Series of roll coverings for industry have been engineered to provide excellent abrasion resistance in a wide range markets and applications. Val-Coat® is noted for excellent mechanical properties. At ambient operating temperatures, Val-Coat® roll coverings offer superior mechanical properties of Tensile, Tear, and Abrasion Resistance over conventional roll coverings including NBR, XNBR, Neoprene, Hypalon, and Polyurethane. These features combine to allow Val-Coat® rolls to last longer before the need for regrinds. Roll life studies have indicated improvements of 3X to 5X the roll cover life over conventional roll cover types.

Unique Dynamic Properties

Val-Coat® Series of roll coverings exhibit outstanding heat resistance. These coverings are stable up to 177°C/350°F while the best polyurethane coverings degrade at 225°F. The physical properties of Val-Coat® Series of coverings are maintained over a wider range of temperatures, as opposed to polyurethane that which will degrade proportionately to changes in temperature. Roll coverings are designed to be thermally stable over a desired operating range of temperature. Although all elastomers will soften some at elevated temperatures, Val-Coat® Series roll coverings maintain physical properties through a broad range of temperatures. This leads to further performance improvements in roll applications since the characteristics of these coverings do not change in the dynamic environment.

Superior Chemical Resistance

Val-Coat® Series roll coverings offer superior resistance to the various solvents that can threaten the life and performance of rolls. These solvents can attack and deteriorate the physical properties of typical rubber coverings. Roll coverings can swell, creating uneven nip pressure and unacceptable roll performance. By offering you a series of Val-Coat® roll coverings, Valley Roller is able to match the best rubber performance characteristics to your particular roll application.

Technical Data

Val-Coat®	
Physical Properties	
Hardness (Shore A)	50-99
Abrasion Resistance	5
Tear Strength	5
Load Bearing	5
Hysteresis	4
Resistance to Denting	5
Service Temperature	350°F
Ozone Resistance	2
Resiliency	5
Recommended Covering Thickness	.25 - 2.00"
Solvent / Chemical Resistance	
Acids	3
Caustics	4
Aliphatic Hydrocarbons	5
Aromatic Hydrocarbons	3
Chlorinated Hydrocarbons	1
Water	5
Ketones	1
Alcohol	4
Esters	1
Gylcols	2

1- Poor 2- Fair 3- Average 4- Above Average 5 - Excellent

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