

RUBBER-COATED ROLLS

Extreme adhesion and resistance
against chemicals and wear



DANROLL
>Rubber coated
rolls<

Rubber-coated rolls find a place in multiple ferrous and non-ferrous metal rolling applications, wherever the rolled material must be properly protected from contact with the rolling equipment or there is presence of acidic materials or solutions, which will dissolve the immersed metal rolls.

Danieli rubber coatings guarantee excellent bonding with roll metal structure as well as porosity-free coating layers.

Features

> Improved lifetime performances thanks to superior quality rubbers and customized for each specific application according to Danieli technical specifications.

> Elevated quality and reliability obtained by optimized manufacturing processes that eliminate completely all inclusions from the rubber coating.

> Exploitation of problem-solving know-how based on a strong engineering team with years of experience on different plants and customers focused on performance and reliability improvement.



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Applications

- > Hold-down rolls
- > Deflector rolls
- > Wringer rolls
- > Blocker rolls
- > Pinch rolls
- > Table rolls
- > Sink rolls (chemical tanks)
- > Tailing rolls
- > Bridle rolls
- > Snubber rolls
- > Steering rolls
- > BUR wiper rolls

Materials

Danieli supplies three types of coating developed to enhance specific mechanical characteristics and achieve the highest possible performance in their application field:

- > **NBR** with enhanced resistance to hydrocarbons (fuels, oils and greases), solvent and water.
- > **SBR** with enhanced resistance to wear in neutral environments (no hydrocarbons, acids, caustics, solvents and water).
- > **CSM** with enhanced resistance to acids, caustics and water especially made for acid tanks and rinsing sections.

Rubber-coated DanRolls are supplied with different hardness ranges in function of application or customer requirements, and can resist up to 140°C.

Manufacturing

DanRoll rubber coating is performed through a rotational casting method applying multiple wraps of rubber strip previously blended according to product chemical specifications. Such coated rolls are then vulcanized under constant pressure in order to purge all air bubbles that concentrate on the surface of the coating and are then removed by final machining. With this manufacturing method the rolls are guaranteed against inclusions and any kind of coating detachment.

