Blue Diamond
New-generation polyurethane roll technology for superior groove stability, chemical resistance, and operational life.
Technology
Developed by Xerium’s Stowe Woodward global research and product engineering team, **Blue Diamond** represents an entirely new generation of superior performance in polyurethane roll technology. Today’s covers must run in the harshest nip environments including: aggressive venting patterns increase the amount of cover surface in contact with process chemistry, higher nip dewatering increases hydraulic action on the cover surface, longer run times at higher speeds cause greater chemical impact, and cover swelling (without significant wear) actually results in many covers being removed at a larger diameter than when installed, and causes groove closure and other problems.

Xerium focused on three key properties to overcome these limitations: 1) Increasing the Dynamic Modulus at 4 P&J to resist groove closure within the nip, 2) improving hydrocarbon resistance to better tolerate oils, pitch, and other chemicals in the pulp stream, thereby reducing swelling, and 3) reducing material compression set to prevent permanent deformation of land areas for grooved rolls.

The result is the new **Blue Diamond** with exceptional stability in the nip for consistent, long running dewatering performance and superior resistance to groove closure.

Application
- grooved and/or drilled covers
- high speed and high performance applications
- available in 3 to 14 P&J hardness

Benefits
- Superior groove stability
- Superior resistance to hydrocarbons and other chemical attack which contributes to cover swelling
- Improved dynamic modulus for improved performance on the hardest nips
- Includes FUSION bonding for 15% additional bond strength

For more information contact your Xerium representative, or visit Xerium.com.