



Quinnesec[®] Hi-Maple Pulp

PREMIUM QUALITY FROM AN INDUSTRY LEADER.

Billerud is the first choice for Northern Bleached Hardwood Kraft—top quality, produced in North America, backed by Billerud’s industry-leading expertise and service.

UNIFORMITY IN EVERY SHIPMENT.

Billerud produces a high quality Northern Bleached Hardwood Kraft (NBHK) Maple pulp at its Quinnesec, Michigan mill. A large portion of this production is used by the mill in the manufacture of coated freesheet paper grades. The remaining production is sold as Quinnesec Hi-Maple Northern Hardwood Pulp.

At Quinnesec, uniformity is built into every shipment. Careful control of the species mix for Quinnesec Hi-Maple Northern Hardwood Pulp, along with the highly automated process and the mill’s culture of manufacturing the product right the first time yields a pulp with remarkable consistency.

ATTRIBUTES OF THE QUINNESEC MILL:

- A US EPA Benchmark Site for developing new regulations (e.g., maximum achievable control technology – MACT)
- ISO 14001 certified and receives an annual independent audit of its environmental management system
- Earned Star status in OSHA’s Voluntary Protection Program, the state’s highest recognition of workplace health and safety
- CoC certification and recycled options available

APPLICATIONS:

- Premium writing, text and cover
- Uncoated printing and writing papers
- Coated freesheet papers
- Technical and specialty papers
- Tissue papers

TYPICAL CHARACTERISTICS:

| Physical Properties | Target | Method |
|----------------------|--------------------|------------|
| Brightness (ISO), % | 90.0 | TAPPI T525 |
| Dirt Count, ppm | 0.2 typ., 2.0 max. | TAPPI T213 |
| Viscosity, cps | 32.5 | TAPPI T230 |
| Moisture, % Air-Dry | 97.0 | TAPPI T210 |
| Ash Content, % | 0.53 | TAPPI T211 |
| Extractives (DMC), % | 0.12 | TAPPI T204 |

| Species Mix | Target |
|-----------------------|--------|
| Maple | 75% |
| Birch | 8% |
| Beech | 4% |
| Other Mixed Hardwoods | 13% |
| Softwood | 0% |

| Fiber Morphology | Target | Method |
|----------------------------|----------|------------|
| Fiber Length, mm | 0.61 ISO | 16065-2 |
| Coarseness, mg/m | 0.070 | |
| Population, MM fibers/gram | 28.5 | |
| Fines (Britt), % | 12.3 | TAPPI T261 |

| Bale Information | |
|------------------------------|--------------------------------------|
| Dimensions (LxWxH) | 32" x 32" x 16" (82 x 82 x 41 cm) |
| Typical Weight | 580 lbs. (263 kg) |
| Wrap Type | SBSK, one-piece |
| Number of Wires | 0, 2 or 3 |
| Wireless Bale Type | Glued |
| Bales per Unit (if unitized) | 6 (2 wide x 3 high) |

| Process Information | |
|-----------------------------|---|
| Bleaching Process Type | Enhanced ECF |
| Bleaching Sequence | O-D-E _o +p-D-D |
| Environmental Certification | ISO 14001 |
| Forestry Certifications | FSC [®] C014984, SFI [®] , PEFC/29-31-92 |

REFINING CHARACTERIZATION:

TAPPI T200/T220

| PFI Revolutions | | 0 | 200 | 500 | 1000 | 1500 |
|----------------------|----------------------|------|------|------|------|------|
| CSF | ml | 470 | 364 | 331 | 304 | 290 |
| Tensile Index | N*m/g | 26.6 | 35.0 | 38.6 | 42.6 | 44.2 |
| Tear Index | mN*m ² /g | 3.4 | 4.6 | 5.1 | 5.6 | 5.7 |
| Breaking Length | km | 2.7 | 3.6 | 3.9 | 4.3 | 4.5 |
| Fold Endurance Index | | 1.3 | 3.2 | 4.3 | 5.9 | 6.8 |
| Bulk | cm ³ /g | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 |
| Opacity | % | 83.4 | 82.3 | 81.9 | 81.4 | 81.1 |

FOR ADDITIONAL INFORMATION:

Contact your Billerud
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billerud.com

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