

Unbleached Softwood Kraft Pulp Grade NSK – O For Fiber Cement Application

Technical Data Sheet

General Description

Product: Unbleached Softwood Kraft Pulp NSK-0
Brand Name: Solombala
Wood Species: Spruce 70 %, Pine 30 %.

Typical Test Results

| | Unit | Average | Max | Min | Method |
|--------------|------|---------|------|-----|----------|
| Kappa Number | № | 25 | 28 | 22 | ISO 302 |
| Shives | % | 0,08 | 0,15 | | Wennberg |

Response to Valley laboratory refining (ISO 5264/1)

Refining curve:

| | Unit | Typical Values | | | | | | Method |
|-----------------|-----------------------|----------------|------|------|-------|-------|-------|------------|
| | | 0 | 15 | 30 | 45 | 60 | 90 | |
| Beating time | min | 0 | 15 | 30 | 45 | 60 | 90 | ISO 5267/1 |
| SR Number | ⁰ SR | 13 | 16 | 20,5 | 27,0 | 38,0 | 67,0 | ISO 1924/2 |
| Tensile Index | Nm/g | 40,1 | 78,0 | 96,5 | 107,9 | 111,8 | 113,9 | ISO 2758 |
| Burst Index | kPa*m ² /g | 2,24 | 5,13 | 6,90 | 7,54 | 7,99 | 8,23 | ISO 1974 |
| Tear Index | mN*m ² /g | 19,7 | 14,7 | 12,8 | 12,1 | 11,7 | 10,9 | ISO 5270 |
| Density | g/cm ³ | 0,60 | 0,67 | 0,70 | 0,72 | 0,75 | 0,77 | ISO 1924/2 |
| Breaking Length | m | 3300 | 4800 | 8800 | 9400 | 10000 | 10600 | |

Testing conditions: 23 °C, 50 % RH. Production of the development types by ISO 5269/1
The models were testing in Keskus Central Laboratory (Finland).

Zero Span Tensile

| | Unit | Average | Max | Min |
|------------------------------------|------|---------|-----|-----|
| Wet Zero Span (13 ⁰ SR) | km | 15,5 | 16 | 15 |

Fibre Length

| | Unit | Average | Max | Min | Method |
|------------------|----------|---------|------|------|-------------------|
| L. Weighted avg. | mm | 2,62 | 2,70 | 2,55 | Kajaani FS 200 |
| Coarseness | mg/100 m | 17,0 | 18,5 | 16,0 | |



Chemical Characteristics

| | Unit | Average | Max | Min | Method |
|---------------------|--------------------|---------|------|-----|------------|
| Ash | % | 0,9 | -- | -- | ISO 1762 |
| Conductivity | mS/m | 4,5 | 5,5 | -- | ISO 6587 |
| Viscosity | cm ³ /g | 950 | -- | 900 | ISO 5351/1 |
| pH-cold water extr. | | 8,5 | 9,0 | 7,0 | ISO 6588 |
| Moisture | % | 18,0 | 23,0 | | |

Optical properties

| | Unit | Average | Max | Min |
|------------|------|---------|-----|-----|
| Brightness | % | 28 | -- | 27 |

Bale and unit dimensions

| Average bale dimensions | | Average unit dimensions | |
|-------------------------|-----|-------------------------|------|
| Length (cm) 80 | | Length (cm) 80 | |
| Width (cm) | 60 | Width (cm) | 120 |
| Height (cm) | 46 | Height (cm) | 138 |
| Weight (kg) | 200 | Weight (kg) | 1200 |
| Six bales in unit | | | |

KONIMPEX Sp. z o.o.

Ul. Mickiewicza 24
62 - 500 Konin
Phone: (+48 63) 249 77 48, 249 68 18
Fax: +(48 63) 249 77 26
Email: pulp@konimpex.com.pl

