

Technical Data Sheet

Product: Unbleached Softwood Kraft Pulp
Brand name: Celco FC
Wood specie: Pinus Radiata D. Don
Pulp Mill: Constitución

Celco unbleached softwood Kraft pulp obtained from Radiata Pine Managed plantations established in southern Chile, Arauco pulp mills are certified under chain of custody international standards in addition to ISO 9001 and 14001 certified for quality and environmental scopes. Considered as a premium fiber for fiber cement applications due to high fiber length, high fiber strength and high coarseness.

Pulp Characteristics

Lignin content				
	Unit	Average	Std. Dev*	Based on
Kappa Number	(N°)	29	1.3	ISO:302-2004

Fiber morphology				
	Unit	Average	Std. Dev*	Based on
L. Weighted	(mm)	2.55	0.03	L&W fiber tester 912
Coarseness	(mg/m)	0.23	0.01	L&W fiber tester 912

Mechanical properties				
	Unit	Average	Std. Dev*	Based on
Dry Zero Span (unbeaten)	(Km)	16.0	0.5	T231 cm-96
Wet Zero Span (unbeaten)	(Km)	15.0	0.5	T273 pm-96

Response to PFI laboratory refining ⁽¹⁾						
	Unit	Reference Values				Based on
PFI Revolutions	(rev)	0	5400	7800	9900	T248 sp-08
Freeness	(°SR)	12	20	30	45	T227 om-09
Breaking Length	(Km)	3,2	10	10,5	10,8	T494 om-13
Burst Factor	(f)	16	75	80	85	T403 om-10
Tear Factor	(f)	200	135	126	120	T414 om-12

(1) Typical values obtained at Constitución mill's laboratory with normal production samples.
Hand sheet forming based on T 205 om-88, Physical properties calculation based on 60 g/m2

Other properties				
	Unit	Average	Std. Dev*	Based on
Viscosity	(cm3/g)	1050	30	T230 om-82

Guaranteed values for optical Properties				
	Unit	Average	Std. Dev*	Based on
Dirt Count	(mm2/m2)	80	10	T213 om-85

*Three Std. Dev are considered

January 2023