Functional Fibers Portfolio and Comparison







PEKTOS AG v3, May 2023 citrus peels sugarbeet pulp after sugar extraction Fiber Type / Source de-juiced apples, apple pomace carrot pulp Tradename PEKTOS APPLE FIBER AF 3 C PEKTOS CARROT FIBER KF 15 C PEKTOS CITRUS FIBER CF 1525 A PEKTOS CITRUS FIBER CF 1525 C PEKTOS BEET FIBER BF 5 PEKTOS BEET FIBER BF 10 grades: A.C.E.G.H.Flake grades: A.C % Dietary Fiber (average values) > 60 % ≥60% > 70 % > 70 % ≥ 70 % ≥70% % insoluble > 50 % ≥40% > 35 % > 35 % ≥ 52 % ≥52% ≤10 % < 18 % % soluble ≥18% > 35 % > 35 % < 18 % < 11 % < 11 % <30% <30% Carbohydrates, total < 23 % ≤22% < 2 % Carbohydrates, sugars < 2% < 2.5 % < 2.5 % Protein < 5 % ≤5% < 7 % < 7 % < 8 % < 8 % H value (1% in water) 3.0 - 5.0 4.5 - 6.5 4.0 - 6.0 4.0 - 6.1 4 - 6 5.0 - 6.8 /linerals, ash < 3.0 % ≤ 5.0 % < 4.0 % < 4.0 % ≤4% ≤4% unctionality Viscosity (hot or cold) no significant viscosity hot & cold viscosity hot & cold viscosity hot & cold viscosity low hot & cold viscosity low hot & cold viscosity Water Binding Capacity WBC (g H₂O per g of fibre)* approx 15 10 - 15 35-6 Swelling Capacity SC (volume in ml per g of sample)** 30 - 40 10 - 15 10 - 15 5 - 7 5 - 7 Oil binding capacity (g oil per g of fibre) n/a 4 4 4 Particle size max. 5% > 0.150 mm min. 70% < 0.250 mm max 10% > 0.070 mm max 5 % > 0.150 mm superfine to flake superfine & fine Solubility weak partly soluble partly soluble partly soluble partly soluble partly soluble Processing tolerance stable stable stable stable Gelling effect (usually shearing necessary) weak gel >60Bx and pH <3.2 no gel gels at >55Bx and pH <3.5 gels at >55Bx and pH <3.6 no gel no gel Emulsion capacity n/a supporting supporting supporting supporting supporting Clarity/sheen/opacity in finished product opaque, brownish opaque, whitish opaque, yellow tinge opaque, yellow tinge cloudy, turbid cloudy, turbid Cold water swelling/dispersibility yes yes yes yes yes yes ilm Forming properties no no no no no no ree flow agent (yes) no (yes) (yes) (yes) yes ensory Properties pulpy, smooth pulpy, slightly gritty Mouthfeel in dispersion slight pulpiness, sandiness pulpy, smooth pulpy, smooth pulpy, slightly gritty Taste fruity, typical apple sweetish, bland fruity, bland fruity, bland typical typical Colour light brown beige - light orange beige to off-white beige to off-white beige-grev beige-grey Transparency (1% dispersion in water) low, turbid, light brown turbid turbid turbid turbid turbid Specification details abelling, declaration apple fiber, fruit fiber, plant fiber carrot fiber, vegetable fiber, plant fibe citrus fiber, fruit fiber plant fiber sugar beet fibre, vegetable fibre Switzerland/Germany Switzerland/Germany Germany Germany Country of origin 1302.3900 2303.2090 HS-Code 4706.9100 0712.9089 Organic certification BIO quality available BIO quality available BIO quality available no GM status non-GMO non-GMO non-GMO non-GMO Allergen status allergen free allergen free allergen free allergen free Gluten-free < 20 ppm < 10 ppm < 10 ppm < 10 ppm Halal certified not yet certified not yet certified not vet cerified not yet certified Cosher certified yes yes yes yes LISP Grade no no no no A - G: 22kg H: 14kg, Flakes: 16kg bags or boxes 20 kg bags or boxes Pack size 25 kg bags or boxes 12.5 kg bags Big Bags available on request Best before, months after production date 36

* Method Swelling Capacity (SC): modified method of Rosell, Santos & Collar (2009). One gram of sample is mixed with 40 ml dist. water with light agitation/panning (no mechanical shearing or stirring), then allowed to hydrate for 24 h at 25 °C ± 1 °C. The volume of the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is seen to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is seen to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is seen to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is seen to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is support to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is support to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample. Is support to support the sample is recorded after 24 h. SC is expressed as ml/gram of sample.

Method Water Binding Capacity (WBC): 0.8g sample is mixed with 9.2g water, let stand for 24h, the centrifuged at 3,000rpm for 10 min. The supernatant is weighed off, then the WBC calculated as x g of water per g of fibre.