



Protanal® LFR 5/60 PH Eur NF, General sodium alginate

Product Specifications:

Chemical and Physical:

Test Methods

ID-test	Positive	2010
Assay	90.8 – 106.0%	2706
Appearance of solution (Opalescence)	Better than ref. solution II	2240
Color of solution	Better than BY6 standard	2241
Loss on drying	NMT 15.0%	2080
pH	6.0 – 8.0	2070
Viscosity, 10%	300 – 700 mPas	2178
Sulphated ash	30.0 – 36.0%	2097
Ash 800C	18.0 – 27.0%	2095
Particle size	NLT 99% through 60 mesh BS	2221
Calcium (Ca)	NMT 1.5%	2724
Chlorides	NMT 1.0%	2750

Microbiological:

Total Aerobic Microbial count (TAMC)	NMT 200 cfu/g	0140
Total Mould & Yeast (TYMC)	NMT 200 cfu/g	0160
Salmonella	Negative / 10g	0156
E. coli	Negative / 10g	0130

Heavy Metals:

Arsenic (As)	NMT 1 ppm
Lead (Pb)	NMT 10 ppm

NMT = Not More Than
NLT = Not Less Than



Product Shelf-life / Re-evaluation Date

Recommended store at cool and dry conditions. Keep containers sealed as material is hygroscopic.

Re-evaluation date is 12 months from date of manufacture, if storage conditions stated above are observed.

DuPont recommends that after the above re-evaluation date, the customer considers that loss on drying, pH and viscosity are tested to establish whether material is still within listed specification.

Safety Data Sheets (SDS) available on request.

Patents

DuPont or its affiliates is owner and/or licensee of several patents related to its products. The products, processes and uses of such products referred to in this document may be covered by one or more patents or pending applications in the United States and/or other countries. DuPont does not warrant against any infringement claim arising from the sale and/or use of any DuPont product in combination with other materials; the use of any DuPont product in the operation of any process; any DuPont product manufactured to a customer's designs or specifications; or any DuPont product manufactured by any process requested by a purchaser.

Product Suitability

The information contained in this document (as well as any advice or assistance) is provided by DuPont only as a courtesy and is intended to be general in nature. Any uses suggested by DuPont are presented only to assist our customers in exploring possible applications. DuPont make no warranty, express or implied, as to its accuracy or completeness, or the results to be obtained from such information, advice or assistance. Each customer is solely responsible for determining whether the DuPont products are suitable for such customer's intended use, and for obtaining any necessary governmental registrations and approvals for such customer's production, marketing, sale, use and/or transportation of finished goods using or incorporating the DuPont products.

The DuPont Oval Logo, DuPont™ and Protanal® are registered trademarks or trademarks of DuPont de Nemours, Inc. or its affiliates. ©2019. DuPont.