



09-03-1001DOC	Technical Data Specification
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Product Code:	BULK01HEMP	Technical Data Specification ID:	TDS-BULK01HEMP	Issue:	3
Product Name:	ORGANIC HEMP SEED PROTEIN POWDER			Date:	05.03.2024

PRODUCT INFORMATION

BOTANICAL NAME Cannabis Sativa

COUNTRY OF ORIGIN Netherlands, United Kingdom, Romania, Lithuania

BRIEF DESCRIPTION A seed of cannabis Sativa L, hemp is a non-drug variety of cannabis. This remarkable “superfood” is an excellent protein source embodying essential amino acids. Hemp seeds are an optimum source for fatty acids including omega 3-6-9 and vital minerals. The two main proteins in hemp seed are edestin and albumin. These high-quality storage proteins are easily digested and contain nutritionally significant amounts of amino acids.

Reminiscent of a sunflower seed, raw hemp seeds are selected for the finest quality and then pressed at 43°C to separate the hemp oil from the solids to form a paste. Once the paste has dried into a cake, it is stone ground to hemp powder. The hemp seed powder is sifted to reduce fibre content whilst preserving a high proportion of protein. Organic Hemp Seed protein embodies a high protein content, which includes essential amino acids.

Organic Hemp seed Protein powder is certified to EU organic standards according to Regulation (EU) 2018/848 and Great British Organic Standards by the Soil Association under the code GB-ORG-05

INGREDIENTS 100% Organic Hemp Protein Powder Isolate

INTENDED USE Ready to use or as an ingredient

SUGGESTED USE 20-30g per day. Please consult your doctor before taking any nutrient-dense products.

PACKAGING/ NET WEIGHT 20kg polythene bag

SHELF LIFE & STORAGE 24 months from the manufacture date. Store in a cool, dry place.



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NUTRITIONAL INFORMATION

Nutrition	Per 100g	Units	% RI
Energy	1454/348	kJ/kcal	
Fat	8.4	g	
of which saturates	1.2	g	
of which mono-unsaturates	1.1	g	
of which polyunsaturates	5.8	g	
Carbohydrate	5.1	g	
of which sugars	4.2	g	
Fibre	26	g	
Protein	50	g	
Salt	0	g	
Magnesium	724	mg	193%
Manganese	18	mg	875%

We periodically review our nutrition information based on a risk assessment to account for seasonal variability, growing condition and other factors that cause nutrition result to vary. Please find our updated TDS.

The nutritional information provided in this document is based on nutritional testing and on average, as required by regulation (EC) No 1169/2011. The information is not meant to ensure warranty of characteristics. It comes without commitment and is not valid for any claim of warranty and product liability respectively

AUTHORISED HEALTH BENEFITS BASED ON MICRONUTRIENTS

Micronutrients in this product contribute to:

- | | |
|---|--|
| <ul style="list-style-type: none"> ✓ reduction of tiredness and fatigue ✓ electrolyte balance ✓ normal energy-yielding metabolism ✓ normal functioning of the nervous system ✓ normal muscle function ✓ normal formation of connective tissue | <ul style="list-style-type: none"> ✓ the process of cell division ✓ normal protein synthesis ✓ normal psychological function ✓ the maintenance of normal bones ✓ the maintenance of normal teeth ✓ protection of cells from oxidative stress |
|---|--|

These approved health benefits are based on the detailed nutritional composition of the product we supply and in compliance with regulation (EC) No 1924/2006. These health benefits may not be applicable to similar products from other suppliers. We recommend that any claims made for a product are verified by lab analysis. For a vitamin claim, this should take place at the end of shelf-life.

ORGANOLEPTIC PROPERTIES

Appearance/Texture	Fine Powder
Flavour	Nutty
Aroma	Characteristic
Colour	varies from bright green to green with shades of light brown



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PHYSICAL CHARACTERISTICS

<i>Sieve Size</i>	280µm
<i>Foreign Materials</i>	Absent
<i>Solubility</i>	N/A
<i>Density</i>	0.52g/cm ³

CHEMICAL CHARACTERISTICS

<i>Moisture</i>	Max. 8%
<i>Ash</i>	N/A
<i>Water Activity</i>	N/A
<i>THC</i>	<3mg/kg

MICROBIOLOGICAL CHARACTERISTICS

Name	Maximum Limit	UoM
<i>Plate Count</i>	≤1000000	cfu/g
<i>Yeast</i>	≤10000	cfu/g
<i>Mold</i>	≤10000	cfu/g
<i>E. Coli</i>	≤20	cfu/g
<i>Salmonella</i>	Not Detected	/25g
<i>Bacillus Cereus</i>	≤10000	cfu/g
<i>Listeria</i>	Not Detected	/25g
<i>Clostridium Perfringens</i>	≤10000	cfu/g
<i>Staphylococcus Aureus</i>	≤10000	cfu/g
<i>Enterobacteriaceae</i>	≤10000	cfu/g

DIETARY INFORMATION

Diet	Suitable For	Certified?	Comments
Organic	Yes	Yes	
Vegetarian	Yes	Yes	
Vegan	Yes	Yes	
Jewish / Kosher	Yes	Yes	
Muslin / Halal	Yes	No	Suitable but not certified



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ALLERGEN STATEMENT

We hereby certify that this product sold by us using the supplier pack size does not contain any substances causing allergies or intolerances as ingredients or by possibility of cross contamination. The list of allergens which are likely to cause adverse reactions in susceptible individuals is provided in Annex II of Regulation (EU) No 1169/2011. Please note that this statement is based on the information provided by the manufacturer of the product.

ALLERGEN COMPONENT	PRESENT (as an Ingredient)	ABSENT AS INGREDIENT (on Same Line)	PRESENT IN PROCESSING PLANT		Allergens: When purchased in bulk size original packaging, manufacturer allergen policy will apply. When purchased in quantities that need re-packaging, our allergen policies will apply.			
					Component	Nuts in Bulk (Applies when bought in small quantities that need re-packaging)		
					In Product	Processed in Same Equipment	Handled on Site	
Celery & product there	No	No	No	-				
Cereals Containing Gluten	No	No	No	-				
Crustaceans	No	No	No	-	Cereals containing GLUTEN and products thereof	NO	YES	YES
Eggs	No	No	No	-	EGGS or its derivatives	NO	NO	NO
Fish	No	No	No	-	FISH or its derivatives	NO	NO	NO
Lupin	No	No	No	-	CRUSTACEANS / SHELLFISH	NO	NO	NO
Milk	No	No	No	-	MOLLUSCS	NO	NO	NO
Molluscs	No	No	No	-	PEANUTS or derivatives	NO	YES	YES
Mustard	No	No	No	-	SOYA BEANS or derivatives	NO	YES	YES
Nuts	No	No	No	-	MILK (LACTOSE) or its derivatives	NO	YES	YES
Peanuts	No	No	No	-	NUTS, tree nuts:	NO	YES	YES
Sesame Seeds	No	No	No	-	CELERY, including celeriac and its derivatives	NO	YES	YES
Soybeans	No	No	No	-	MUSTARD, referring to all parts of the plant and derivatives thereof	NO	YES	YES
Sulphur Dioxide & Sulphites	No	No	No	-	SESAME SEEDS or derivatives	NO	YES	YES
Comments:	Complete segregation in place				SULPHITES >10ppm – Sulphite quantity to be given in ppm	NO	YES	YES
					LUPIN seeds or derivatives	NO	NO	NO

CONTAMINANTS

Heavy Metals (lead, cadmium, mercury, tin, arsenic)
Mycotoxins (aflatoxins, ochratoxin A, patulin)
Nitrates
Polycyclic Aromatic Hydrocarbons (PAH)

According to Regulation (EC) No 2023/915
According to Regulation (EC) No 2023/915
According to Regulation (EC) No 2023/915
According to Regulation (EU) No 2023/915

PACKAGING

<i>Packaging description</i>	Vacuum Bags, cardboard box
<i>Pack size</i>	20kg
<i>Objective Criteria</i>	N/A
Material Specification	



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<i>Primary packaging</i>	Vacuum Bags (Laminated Film with print PET/PE WHITE)				
<i>Print (Litho/Flexo)</i>	N/A				
<i>Colours</i>	Yellow				
<i>Material</i>	Laminated Film with print PET/PE White				
<i>Packaging dimension in mm (L*W*H)</i>	750x520mm	Thickness	0,152mm		
<i>Weight of packaging</i>	0.2Kg				
<i>Content of plastic food contact material (%)</i>	N/A	<i>Content of metal & rubber (%)</i>	N/A		
<i>Recyclability</i>	Partially-50%				
<i>Lamination/Layers</i>	N/A	<i>Coating</i>	N/A		
<i>Sealing method</i>	Heat sealing				
<i>Secondary packaging</i>	Cardboard Box				
<i>Print (Litho/Flexo)</i>	N/A				
<i>Colours</i>	Brown				
<i>Material</i>	Paper/ Board Corrugated				
<i>Packaging dimension in mm (L*W*H)</i>	1120x94x1080	Thickness	6,5mm		
<i>Weight of packaging</i>	1.414kg				
<i>Content of plastic food contact material (%)</i>	0%	<i>Content of metal & rubber (%)</i>	N/A		
<i>Recyclability</i>	100% Recycled				
<i>Lamination/Layers</i>	N/A	<i>Coating</i>	N/A		
<i>Sealing method</i>	N/A				

Quality, Regulatory & Brand Integrity Compliance

Category	Compliance Criteria	Yes/No/N/A
Good Manufacturing Standards	The packaging meets hygiene and traceability requirements Regulation (EC) No. 2023/2006 on good manufacturing practice. FCMs should be manufactured in compliance with general and detailed rules on good manufacturing practice (GMP).	Yes
	Quality assurance system, quality control system, and documentation system is established, implemented, and maintained.	
	The packaging supplier is GFSI certified to demonstrate GMP in the manufacturing process.	No



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Paper & board	<p>The packaging is chlorine free (TCF) or elemental chlorine free (ECF)</p> <p>Photo initiators –including benzophenone (4 methyl benzophenone) are not used</p> <p>Acrylamide is not used in printers and board mills</p>	Yes Yes Yes
Printed packaging	<p>low odor and migration inks and varnishes to ensure migration legislative limits on benzophenone and its derivatives are met</p> <p>ITX is not used as a photo initiator in printed inks</p>	No No
Packaging chemical migration test	<p>Migration tests for packaging materials available.</p> <p>The packaging migration test include all legislatives chemical and Tinuvin UV absorber, phthalates and monomers – SVHCs Phthalates in plastic foils and bags</p>	Yes Yes
Non-intentionally added substances (NIAS)	The packaging is free from impurities that may be non-intentionally added to food-contact packaging material including substances such as contaminants, reaction and degradation products	Yes
Nano particles	The packaging does not contain or consist of engineered nanoparticles	Yes
PVC & PVCD	The plastic material is free from PVC	Yes
Mineral Oil Hydrocarbons	Migration of Mineral Oil Hydrocarbons (MOH), must meet German MOSH Benchmark Levels (send test report) and EU limits on MOAH	Yes
Chemical substance of very high concern (SVHC)	The packaging does not contain or use acrylamides, novolac glycidyl ethers, perfluoro-octane sulphonate, phthalates, NOGE, PFOS & PFOAS, PVC and Derivatives, Semi-carbazides, 4-methylbenzophenone	Yes
Additives	The material complies with EU food contact material legislation and does not contain dual additives chemicals e.g., Phosphoric Acid or Sulphur Dioxide	Yes
Recycled plastics	Comply with New Regulation (EU) 2022/16161 on recycled plastic materials and articles intended to come into contact with foods.	N/A
Bisphenol A	Does the packaging material for organic raw material contain Bisphenol in plastics and epoxy resin?	No
Metallized & rubber packaging e.g., foil bags	Packaging material does not contain Bisphenol and meet the limits Bisphenol A (BPA) BADGE, BFDGE, NODGE	Yes
Compostable packaging	The compostable/biodegradable packaging complies with European Standard for Compostable Packaging (EN13432)	N/A

The packaging is in accordance with the EU Legislation:

- Council Directive on Packaging and Packaging Waste 94/62/EC and its consecutive amendments.
- Commission Regulation (EC) No 1935/2004 on Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.

Commission Regulation (EU) No 10/2011 on Plastic Materials and Articles Intended to Come into Contact with Food and its consecutive amendments



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GMO FREE

This product is not subject to genetic modifications. Process controls are in place to ensure no accidental contamination with genetically modified materials, or materials derived thereafter, can occur. We hereby certify that this product is not subject to labeling under EU Regulations 1829/2003/EC and 1830/2003/EC on genetically modified food and feed.

PESTICIDES

This product complies with the requirements outlined in Regulation (EU) 2018/848 of the European Parliament and of The Council (and consecutive amendments). It also complies with Soil Association strict organic farming standards. During the manufacturing process the product and the packaging materials are not exposed to pesticides or pesticide residues. Pesticides are not stored on site, nor used in the manufacturing or warehousing areas.

IRRADIATION AND ETHYLENE OXIDE

We declare that the product listed above is not treated with ionizing radiation (r2) or ethylene oxide (EtO) for any purposes and as such are free of gamma ray and ethylene oxide residue and complies with the EU regulation 1999/3/EC

BSE STATEMENT

This product is manufactured exclusively from plant source, and does not contain any components from animal origin. It has not been derived from any animal source, and has not come into contact with any components of animal origin.

RESIDUAL SOLVENTS

No residual solvents are used in the manufacturing process.

LEVEL OF UNDESIRABLE SUBSTANCES

The strictly controlled production process of this product ensures that the undesirable substances levels (heavy metals, PAH, mycotoxins, etc.) are below the limits identified by EU legislation (Commission regulation No 2073/2005, No 1881/2006 and consecutive amendments), including the recommendations provided by EFSA on food contaminants.

PRODUCT INTEGRITY STATEMENT

- **Novel Food Statement**

Cannabis Sativa: In the EU, the cultivation of Cannabis sativa L. varieties is permitted provided they are registered in the EU's 'Common Catalogue of Varieties of Agricultural Plant Species' and the tetrahydrocannabinol (THC) content does not exceed 0.2 % (w/w). Some products derived from the Cannabis sativa plant or plant parts such as seeds, seed oil, hemp seed protein flour, defatted hemp seed have a history of consumption in the EU and therefore, are not novel.

Other specific national legislation may restrict the placing on the market of this product as a food or food ingredient in some Member States.



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Our Organic Hemp Protein powder which is produced from Organic Hemp Seeds contains tetrahydrocannabinol (THC) levels of less than 0.2% (w/w) as permitted by European Union Regulation (EU) 2015/2283 (Novel Food Regulation):

- **Tetrahydrocannabinol (THC)**

Our Organic Hemp Protein Powder complies with (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food. The legislation sets the maximum levels of delta-9-tetrahydrocannabinol ($\Delta 9$ -THC) in hemp seeds and products derived therefrom 3.0mg/kg.

*The maximum level refers to the sum of delta-9-tetrahydrocannabinol ($\Delta 9$ -THC) and delta-9-tetrahydrocannabinolic acid ($\Delta 9$ -THCA), expressed as $\Delta 9$ -THC. A factor of 0,877 is applied to the level of $\Delta 9$ -THCA and the maximum level refers to the sum of $\Delta 9$ -THC + 0,877 x $\Delta 9$ -THCA (in case of a separate determination and quantification of $\Delta 9$ -THC and $\Delta 9$ -THCA).

- **Cannabidiol (CBD)**

This product does not contain any leaves and inflorescences of hemp - cannabis and products containing cannabinoids derived from it is not allowed.

Our organic hemp seed protein products derived from the Cannabis sativa L seeds. The seeds part are the authorized plant part There is a significant history of consumption of hemp seed flour, defatted hemp seed have a history of consumption in the EU and therefore, are not novel under European Union Regulation (EU) 2015/2283 (Novel Food Regulation).

All hemp seed seeds contain The product contains natural levels of CBD at levels of less than <10 mg/kg which is our internal limit. Consumption of this product following the labelled instructions does not result in consumption of more than 10mg a day.

ANIMAL TESTING STATEMENT

Go Superfoods Ltd confirms that we do not conduct or commission animal testing of any products.

The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of safety requirements. Therefore, it should not be construed as guaranteed specific properties of the product described. Our product specification may be subject to change without notice.

This is an agricultural product; therefore, some batch variation may occur in terms of colour, flavour, odour, appearance and composition based on the growing conditions and seasonal variability.

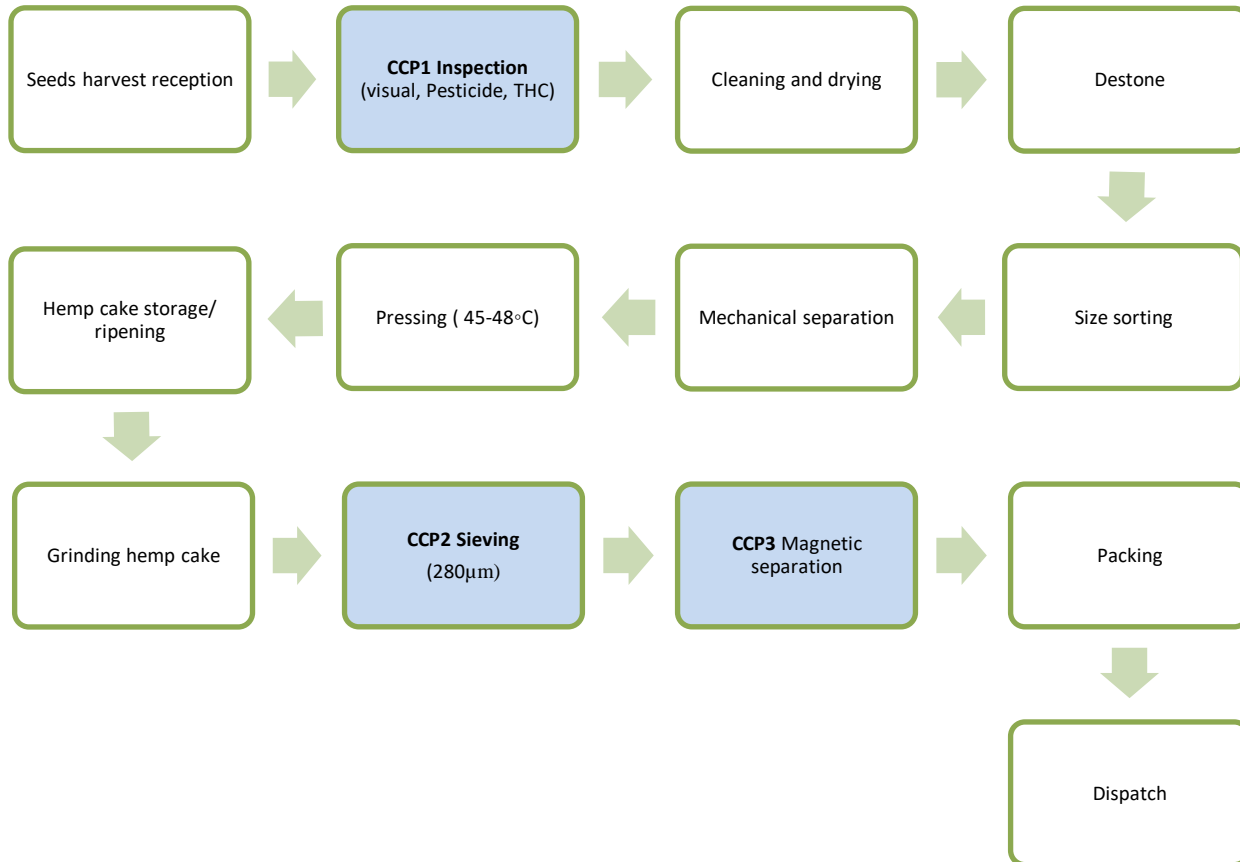
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PROCESS FLOW





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MATERIAL SAFETY DATA SHEET

HAZARD IDENTIFICATION

Not classed as hazardous

FIRST AID MEASURES

SKIN

Wash with plenty of water.

INGESTION

Seek medical attention if required.

INHALATION

Remove exposure. Seek medical attention if required.

EYES

Wash out with plenty of water / eye solution. Seek medical attention if irritation persists

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Use appropriate media relating to other components of fire- can use: water spray, foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS OF PRODUCT

Not Flammable

PROTECTIVE EQUIPMENT FOR FIREFIGHTING

Wear full protective clothing and self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES

SPILLAGES

Treat as any other food material

PERSONAL PRECAUTIONS

No special procedures identified

ENVIRONMENTAL PRECAUTIONS

Minimize contamination of drains, surface and ground waters.

HANDLING AND STORAGE

HANDLING

Handle under good hygiene procedures as with any food material.

STORAGE

Store away from air, heat and light exposure. Store in original container in cool area, under cover.

EXPOSURE CONTROL / PERSONAL PROTECTION

BODY PROTECTION

Normal work wear



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SKIN PROTECTION	Rubber / PVC gloves
EYE PROTECTION	Chemical goggles
RESPIRATORY PROTECTION	As it is powder form- respiratory protection may be required

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Powder
SOLUBILITY IN WATER	Partially Soluble
AUTO-FLAMMABILITY	No

STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions. Avoid exposure to air, light and humidity.
CONDITIONS TO AVOID	None Identified.

TOXICOLOGY INFORMATION	Not applicable
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ECOLOGICAL INFORMATION	This product is ultimately biodegradable.
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DISPOSAL CONSIDERATIONS	Dispose of according to relevant local / national guidelines.
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TRANSPORT INFORMATION	Non-hazardous for air, sea and road freight.
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REGULATORY INFORMATION	No data
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ADDITIONAL INFORMATION

This Product is 100% Natural and Organic; it is not considered hazardous.

The information in this document is believed to be true and accurate at the time of creation, however all statements contained in this document are made without warranty. The entirety of the potential methods of use is not within our control and therefore no responsibility or liability will be assumed for use of this product.



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Version No:	Review Date:	Reason for the change	Changed by:	Authorized by:
1	21.02.2023	Merging previous specifications documents: <ul style="list-style-type: none"> - Product Specification GO053, issue 3.1, issued 09/09/2020 - Material Safety Data Sheet GO205, Issue 3, Issued 13/02/2020 - Product Flow Chart GO345, Issue 3, Issued 15/04/2020 - Technical Data Sheet, GO134, Issue 5.4, Issued 30/08/2022) into one document. No food safety data changes involved.	E. Frydrych	T. Kufa
2	13.03.2023	TBC content updated to reflect legislation change (Commission Regulation (EU) 2022/1393 amending Regulation (EC) No 1881/2006 as regards maximum levels of delta-9-tetrahydrocannabinol in hemp seeds and products derived therefrom	E. Frydrych	T. Kufa
3	05.03.2024	Updating to new format	D.Krishnan	T. Kufa



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Specification Agreement and Authorization

Please sign and return this page within 14 days of receipt of the specification.

If after a total of 28 days from the receipt of the specification we have not received either the signed acceptance page or discussed and recorded any derogation or deviation from this specification, we will deem that the specification has been accepted.

No further contact regarding formal approval of this specification will be made.
