

Certificate of Analysis

Delivery Address

Email Address

Product Name	Expancel 551 DE 40.d42±2 BAGS 6X3KG		
Lot Number		Order Number	
Material Number	8018369	Production Date	2022-10-07
Customer Reference		Printing Date	2022-10-17
Delivery Number		Best before	2025-10-06
Comments			

Sublot no	Analysis Of	Analysis Results	Unit	Minimum	Maximum
001 to 004	Density	40.6	kg/m3	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0
	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0
	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			
	POL Batch Number1	2220179			
	POL Batch Number2	2220180			
005 to 019	Density	41.0	kg/m3	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0

We hereby confirm that our delivery of Expancel® microspheres conforms to our specification. Our management system is certified according to ISO 9001, ISO 14001 and OHSAS 18001. This document is printed by EDP and valid without signature.

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005 to 019	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0
	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			
	POL Batch Number1	2220179			
	POL Batch Number2	2220180			
020 to 024	Density	41.7	kg/m3	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0
	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0
	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			
	POL Batch Number1	2220179			
	POL Batch Number2	2220180			

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025 to 029	Density	41.5	kg/m ³	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0
	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0
	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			
	POL Batch Number1	2220179			
	POL Batch Number2	2220180			
030 to 034	Density	40.4	kg/m ³	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0
	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0
	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			

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030 to 034	POL Batch Number1	2220179			
	POL Batch Number2	2220180			
035 to 039	Density	41.5	kg/m3	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0
	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0
	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			
	POL Batch Number1	2220179			
	POL Batch Number2	2220180			
040 to 048	Density	41.9	kg/m3	40.0	44.0
	Particle size D(v,0.5) DOW	11.4	Micron	9.0	15.0
	Particle size D(n,0.5) DOW	4.6	Micron		
	Particle size Dv/Dn DOW	2.5			
	T-start	96	°C	93	98
	T-Max	143	°C	139	147
	TMA-dens	11.2	g/l	0.0	17.0

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040 to 048	Particle size	36.0	µm	30.0	50.0
	DU Batch Number1	2225112			
	POL Batch Number1	2220179			
	POL Batch Number2	2220180			

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