



Document type
CERTIFICATE

Title
Approved Cleanliness Laboratory

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Approved Cleanliness Laboratory

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Approved by (department acronym, name)
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Company	Location & Contact	Requirements	Status	Analysis type
Enge Solutions Cleanliness	São Paulo, SP, Brazil www.engesolutions.com.br	STD4189 v05	Approved	E(<90kg); W(>0,01mg); S; T; C.
		STD4540 v02	Approved	
Metalab	Joinville, SC, Brasil www.metalab.com.br	STD4540 v02	Approved	E(<90kg); W(>0,1mg); S; T.
		STD4189 v05	Approved	
CETeA Laboratorio de Ensayos	Córdoba Capital, Argentina www.laboratoriocetea.com.ar	STD4540 v02	Under approval	E(<30kg); W(>0,1mg); S; T.

Legend:

Analysis type:

- E – Particle extraction;
- W – Particle weight (analytical balance);
- S – Particle size & quantity (optical microscope);
- T – Particle type (electronic microscope);
- C – Cleanliness consultancy for companies.

Revision information			
Issue	Date	Comment	Responsible
01	2017-11-16	New document.	Dirceu Alécio E. Silva
02	2021-03-18	Full update.	Claudia dos Santos Guerra; Giovanni Ferito; Lucas Codato.
03	2021-12-20	Inclusion of Metalab.	Claudia dos Santos Guerra
04	2023-12-16	Metalab full approved	Claudia dos Santos Guerra

STD10000-1