ORM-TLC-75-B10

Test talc < 75 µm

IEC 60529 · IP5X / IP6X | IEC 60068-2-68 · Test La | 10 kg · 5 US gal

Asbestos-free talc powder (hydrated magnesium silicate), 100% passing a 75 µm sieve, for the IP5X and IP6X dust-protection tests of IEC 60529 and Test La (non-abrasive fine dust) of IEC 60068-2-68. Mineral sourced in Brazil, repackaged, verified and certified lot by lot by ORMITY in Montréal, Canada.



Illustrative image.

1. APPLICATION

- **IEC 60529**, dust tests for IP5X (dust-protected) and IP6X (dust-tight), in the dust chamber described by the standard.
- **IEC 60068-2-68**, Test La: non-abrasive fine dust (talc).
- Product standards that refer to the IEC 60529 dust test for IP5X/IP6X codes.

Not intended for tests that require ISO 12103-1 test dust (e.g. ISO 20653, automotive) or for abrasive sand/dust tests (MIL-STD-810H Method 510, RTCA DO-160G Section 12). For those, see other ORMITY products.

2. MATERIAL IDENTIFICATION

PROPERTY	VALUE
Material	Talc (hydrated magnesium silicate)
Chemical formula	$Mg_3Si_4O_{10}(OH)_2$
CAS	14807-96-6
Asbestos	Asbestos-free (verified per lot, see CoA)
Mineral origin	Brazil
Repackaging and certification	ORMITY, Montréal (QC), Canada

3. SPECIFICATIONS

PARAMETER	REQUIREMENT	METHOD	
Particle size	**100% passing 75 µm**	Square-mesh sieve, 75 µm nominal aperture, 50 µm nominal wire (IEC 60529, 13.4; ISO 3310-1)	SPEC.
Moisture	**< 0.5%**	Loss on drying at 105 °C	SPEC.
Asbestos	**Not detected**	Supplier report per lot	SPEC.

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4. TYPICAL CHEMICAL COMPOSITION

COMPONENT	TYPICAL VALUE	
SiO_2	**58 – 63 %**	TYPICAL
MgO	**29 – 32 %**	TYPICAL
Loss on ignition (LOI)	**≤ 6 %**	TYPICAL
Appearance	**Fine white powder, odourless**	TYPICAL

Typical values are for information only and are not a specification. Actual lot values are given on the Certificate of Analysis (CoA).

5. PACKAGING

- 5 US gal (18.9 L) plastic pail with lid and metal handle. Nominal net weight: 10 kg.
- Net weight to be confirmed by filling and weighing the first lot (fine talc has a low bulk density).
- Label with code ORM-TLC-75-B10, lot number and fill date.
- Bilingual EN/FR labelling to Canadian requirements.
- Lot CoA shipped with every delivery.

6. STORAGE AND USE

- Keep the pail tightly closed in a dry, covered place.
- Protect from moisture: damp talc agglomerates and no longer passes the sieve.
- Once opened, check moisture and sieving before testing.
- Under IEC 60529 the charge is 2 kg per m^3 of chamber volume, used for no more than 20 tests.

7. SAFETY

Read the Safety Data Sheet (SDS, WHMIS 2015) before use. Avoid generating and breathing dust: use local exhaust ventilation and suitable respiratory protection, safety glasses and gloves. Observe the occupational exposure limits that apply where the product is used. Non-flammable material.

8. QUALITY CONTROL

- **Certificate of Analysis (CoA) per lot**, with moisture, 75 µm sieve result, SiO_2, MgO, loss on ignition and asbestos-free confirmation.
- **Sieve verification** at ORMITY in Montréal with a certified test sieve (ISO 3310-1, 75 µm aperture, 50 µm wire) before lot release.
- Certified 75 µm go/no-go sieve available for incoming inspection.
- Full particle size distribution by laser diffraction at an outside laboratory, on request.
- Traceability: each pail identifies the supplier lot and the ORMITY lot.

9. LOT IDENTIFICATION

ORMITY lot no.	Fill date	CoA no.
_____	_____	_____

The information in this data sheet reflects current knowledge and is given in good faith. The user is responsible for confirming that the product suits the applicable standard, edition and test method. Values marked typical are not guaranteed. ORMITY reserves the right to revise this document.