

DRY CHEMICAL POWDER – D TYPE

Brief description: PalEx D Class Dry Chemical Powder is a specialized fire extinguishing agent designed for combating fires involving combustible metals such as magnesium, sodium, potassium, lithium, titanium, and aluminum. The powder forms a heat-resistant crust over the burning metal, isolating it from oxygen and absorbing heat to effectively suppress the fire and prevent re-ignition. It is specifically formulated for Class D fire hazards encountered in metal processing, manufacturing, and storage facilities.

1. GENERAL DATA :-

Trade Mark/Brand	“PALEX”
BIS Standard Code	IS 4308:2019
Type	Dry Chemical Powder D - Class



2. FEATURES :-

- i. **Specially Designed for Metal Fires** – Effective on combustible metal fires involving magnesium, sodium, potassium, lithium, titanium, zirconium, and aluminum.
- ii. **Rapid Fire Suppression** – Quickly controls and extinguishes high-temperature metal fires.
- iii. **Heat Absorption Capability** – Absorbs intense heat generated during metal combustion, reducing fire spread.
- iv. **Oxygen Exclusion** – Forms a protective blanket or crust over the burning metal, cutting off the oxygen supply.
- v. **Free-Flowing Powder** – Ensures smooth discharge and effective coverage during firefighting operations.
- vi. **Long Shelf Life** – Properly stored powder remains effective for extended periods with minimal maintenance requirements.

3. APPLICATIONS :-

Palex D Class Dry Chemical Powder is used for extinguishing **Class D fires** involving combustible metals such as magnesium, sodium, potassium, lithium, titanium, zirconium, and aluminum. Typical applications include metal processing plants, foundries, battery manufacturing facilities, chemical industries, research laboratories, and storage areas handling combustible metals.

4. TYPICAL PHYSICAL & CHEMICAL PROPERTIES :-

Appearance	Free flowing Grey powder
Main Content	≥ 90%
Apparent density	0.70-1.10
Free flowing characteristics	≥30gm/s
Moisture Content	<0.5%
Water Repellence	<1.5%
Fire performance	Passes

5. MARKING & APPROVAL :-

BIS (BUREAU OF INDIAN STANDARD)

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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