

Potassium Superoxide (KO₂)

1. OTHER NAMES

- Potassium Dioxide
- Potassium hyperoxide

2. CAS NO.

12030-88-5

3. FORMULA WEIGHT

71.10 gm/mole

4. SPECIFICATION

Sr No.	SPECIFICATION	POWDER	SHEET	GRANULES I	GRANULES II
1.	Appearance	Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow
2.	KO ₂ content (%) min	96	90	82.5	96
3.	Copper content (%)	--	0.25	0.25	0.25
4.	CO ₂ Evolution (ml/gm)	220 Min	170 Min	190 -200	220-230
5.	CO ₂ Evolution (ml/gm) max	6	12	12	6
6.	Sizes (mm)	NA	L:313-318/B:216-221 / T:5.5-6	3.5-5.6	3.5-5.6
7.	Weight (gm)	380-400	---	---	---
8.	Dust content (passing through 125 μ sieve (%) max	----	NA	0.5	0.5

SUPARNA CHEMICALS LTD
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5. REACTIVITY

Potassium superoxide is a strong oxidizing agent and reacts explosively with organic materials.

6. SOLUBILITY

Potassium superoxide is soluble in ethers and hydrocarbons.

7. STABILITY

Potassium superoxide reacts readily with atmospheric moisture to form potassium hydroxide and oxygen is liberated. It should be stored in hermetically sealed condition under dry nitrogen.

8. PACKAGING

- a. 20 kgs in steel drums
- b. Other custom packing available

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9. SHIPPING INFORMATION

- a. UN-2466, PG 1
- b. Corrosive solid

10. SAMPLING INSTRUCTIONS

- a. The product is packed under dry nitrogen with positive pressure of nitrogen inside the drum.
- b. The quantity of the product deteriorates very fast if exposed to atmosphere even for a brief period.
- c. While sampling, please ensure that the sample is taken out under dry nitrogen in a preweighed stoppered bottle and analysis is done immediately.
- d. After sampling, tie the bag securely with a thread, put positive nitrogen pressure in the drum and tighten it properly. This is very important so that the product does not deteriorate on storage.

11. APPLICATIONS

- a. Very convenient oxygen source. Oxygen evolution can be accelerated by incorporating catalyst in KO₂ powder. It is used extensively in self-contained breathing apparatus.
Suparna Chemicals manufactures KO₂ based self-contained breathing apparatus named RAKSHA KAVACH.
- b. Strong oxidizer for chemical reactions.

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