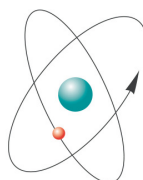


**RESOURCE CHEMICAL LTD**

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**RESOURCE**

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**MATERIAL SPECIFICATION**

**Product name:** Potassium Hydroxide Flake  
**Product code:** 7620

General Properties	
Chemical Formula	KOH
Molecular Weight	56.11
Description	Anhydrous, white solid prone to hydration and carbonation on exposure to air. Material is free from any animal and transgenic vegetable origin

Physical Properties	Unit	Analysis
Apparent Density at 20° C		0.9
Melting Point Temperature	° C	200
Boiling Point 760 mm HG	° C	370
Specific Heat at 25° C	Kcal/kg	0.24

Specific Gravity at 20° C of aqueous solutions

KOH %	KOH en g/l	Specific Gravity at 20° C en g/cm <sup>3</sup>	Viscosity in CPo
21.4	256.6	1.200	1.6
30.2	389.2	1.290	2.35
40.3	564.3	1.400	3.6
50.0	756.0	1.512	8.0

**PACKING**

- 25 Kg (net) bags on pallets - double thickness polyethylene (LDPE) bags packaged in one ton pallets covered with polyethylene (LDPE) stretch film.
- Big Bags

The above information has been provided by the supplier and Resource Chemical Ltd accepts no responsibility for the correctness of any details.

Revision No.: 14  
 Specification Date: February 2016  
 RCL Review Date: 22.03.16

## USES

Preparation of Potassium salts: Carbonates - Phosphates - Nitrates - Permanganate - Xanthates - Iodides

Detergents: Principally Industrial Types

Formulation of Fertilizers in Solution:

Other applications includes: Insecticide/Herbicide manufacture - pigment production - additives for rubber industry - photographic industry - pharmaceutical industry - alkaline batteries - etc

Specification		Average Analysis	Test Method	No.
% KOH	≥ 89.5	90.0	Acidimetry	1200
% K <sub>2</sub> CO <sub>3</sub>	≤ 1	0.18	Acidimetry	1203
% Na	≤ 0.85	0.35	ICP	
mg/kg Cl (chloride)	≤ 20	8	Mercurimetry	1204
mg/kg Fe	≤ 5	1	Colorimetry	1205
mg/kg SiO <sub>2</sub>		< 10		
mg/kg K <sub>2</sub> SO <sub>4</sub>		< 10		
mg/kg PO <sub>4</sub>		< 10		
mg/kg Ni		4		
mg/kg Zn		< 0.5		
mg/kg Pb		< 0.5		
mg/kg Mo		< 0.5		
mg/kg Cu		< 0.5		
mg/kg Cr		< 0.5		
mg/kg Mn		< 0.5		
mg/kg Co		< 0.5		
mg/kg Cd		< 0.5		
mg/kg As		< 0.5		
mg/kg Al		< 0.5		
mg/kg Ca		2		
mg/kg Mg		< 0.5		
mg/kg Sb		< 0.5		
mg/kg Se		< 0.5		
mg/kg Hg		0.01		

(Correspondence mg/kg = ppm and mg/kg x density = mg/l)

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This product conforms with the EU regulation 231/2012 for "E525 Potassium Hydroxide".  
These specifications are described below:

Composition: Not less than 85.0% of alkali calculated as KOH  
Insoluble matter in water: A 5% solution is completely clear and colourless  
Not more than 3.5% as Potassium Carbonate  
Not more than 3 mg/kg of Arsenic  
Not more than 2 mg/kg of Lead  
Not more than 1 mg/kg of Mercury  
Material free of any animal and transgenic vegetable origin

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