



POTASSIUM HYDROXIDE FLAKES

(French: Potasse écaillés)

1/ GENERAL PROPERTIES

- Chemical formula	:	KOH
- Molecular weight	:	56.11

- Anhydrous, white solid prone to hydration and carbonation on exposure to air.
- Material free of any animal and transgenic vegetable origin

2/ PHYSICAL PROPERTIES

- Apparent density at 20° C	:	0.9
- Melting point temperature	:	200° C

- Boiling point, 760 mm Hg : 370° C
- Specific heat at 25° C in 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 ³	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

3/ 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

4/ PRECAUTIONS / TRANSPORT SECURITY

- Refer to the security regulations file

5/ USES

- Preparation of potassium salts : Carbonates – phosphates – nitrates – permanganate – xanthates – iodides
- Detergents : Principally industrial types
- Formulation of fertilizers in solution
- Other applications include : Insecticide/herbicide manufacture – pigment production – additives for the rubber industry – photographic industry – pharmaceutical industry – alkaline batteries – etc...



6/ SPECIFICATIONS

SPECIFICATIONS				AVERAGE ANALYSIS	METHOD	N°
%	KOH	≥	89,5	90,0	acidimetry	1200
%	K ₂ CO ₃	≤	1	0,08	"	1203
%	Na	≤	0,85	0,25	emission flame	1202
mg/kg	Cl ⁻	≤	20	9	mercurimetry	1204
mg/kg	Fe	≤	5	1	Colorimetry	1205
mg/kg	SiO ₂			< 20		
mg/kg	KClO ₃			< 10		
mg/kg	K ₂ SO ₄			< 10		
mg/kg	PO ₄			< 10		
mg/kg	Ni			4		
mg/kg	Zn			< 0,5		
mg/kg	Pb			< 0,5		
mg/kg	Mo			0,2		
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			< 1		
mg/kg	Se			< 1		
mg/kg	Hg			0,01		

This product is conform with requirements of FAO for food-grade additives (JECFA) and conform to the criteria of purity of the decree 02 october 1997 modified (additive E 525). These specifications are describe below :

Requirements FAO	Conformity
Soluble in water	Yes
Not more than 3,5 % as potassium carbonate	Yes
Not more than 3 mg/kg of Arsenic	Yes
Not more than 10 mg/kg of lead	Yes
Not more than 30 mg/kg of heavy metals	Yes
No more than 1 mg/kg of mercury	Yes

This product is in conformity with the requirements of Food Chemical Codex, version 5 following the specifications below:

Requirements of Food Chemical Codex, version 5	Conformity
85.0 % < assay < 100.5 %	Yes
K ₂ CO ₃ < 3.5 %	Yes
Insoluble substances : a 1 :20 aqueous solution is complete, clear and colorless	Yes
Pb < 2 mg/kg	Yes
Hg < 0,1 mg /kg	Yes