

## KPLL

## Magnesium Oxide Reactive Technical Grades

The KP-LL series represents a group of technical grades of magnesium oxide for use in the chemical industry where high purity, controlled reactivity and particle size are indicated. The series provides a range of products of differing activity from moderate to high controlled values of surface area.

Chemical Analysis	Specification	Typical Value
Magnesium Oxide as MgO (ignited basis)	97.0% min.	98.5%
Calcium as CaO	1.0% max.	0.5%
Silicon as SiO <sub>2</sub>	0.1% max.	0.05%
Iron as Fe <sub>2</sub> O <sub>3</sub>	0.1% max.	0.03%
Chloride as Cl	0.7% max.	0.5%
Sulphate as SO <sub>4</sub>	1.0% max.	0.5%
Physical Properties	Specification	Typical Value
Surface area (BET )		
KPLL-20	15-30 m <sup>2</sup> /g	25 m <sup>2</sup> /g
KPLL-40	30-50 m <sup>2</sup> /g	40 m <sup>2</sup> /g
KPLL-60	50-70 m <sup>2</sup> /g	60 m <sup>2</sup> /g
KPLL-80	70-100 m <sup>2</sup> /g	80 m <sup>2</sup> /g
Loss on ignition (900° C)		
KPLL-20	2% max.	0.5%
KPLL-40	4% max.	2%
KPLL-60	5% max.	3%
KPLL-80	6 % max.	4%
Particle size		
Passes 200 mesh (wet sieve)	95.0% min.	99%
Passes 325 mesh (wet sieve)		98%

**Appearance and description:** Free flowing white powders, almost insoluble in water. Insoluble in alcohol. Dissolve in dilute mineral acids. (Caution! Exothermic reaction!)

**Packaging and storage:** Net 25 kg in heavy duty paper valve bags with coated barrier ply, or big bags of 700 kg. Store in original packaging in a dry, ventilated space. Shelf-life under suitable storage conditions: 18 months from date of manufacture.

Custom-tailored specifications and other packaging modes are available.

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