

LITHIUM CARBONATE

Application:

Additive for quick setting cement; raw material for the glass, ceramics and enamel industries; basic material for the manufacture of other lithium compounds; catalyst for esterification; additive and flux for welding rods; additive in aluminum electrolysis melts.

Technical Specifications:

Solubility in water	
Temp °C	g Li ₂ CO ₃ /100g
0	1,54
20	1,33
40	1,17
60	1,01
80	0,85
100	0,72

Typical screen analysis			
mm	US mesh	Typical(%)	Guaranteed(%)
>840	+20	0,0	
0,420-0,840	-20/+40	0,1	
0,250-0,420	-40/+60	0,1	
0,149-0,250	-60/+100	4,3	
0,105-0,149	-100/+140	8,0	
0,074-0,105	-140/+200	4,0	
<0,074	-200	83,5	Min 80
<0,250	-60	99,5	Min 98,5

Chemical analysis		
Chemical	Typical(%)	Guaranteed(%)
Li ₂ CO ₃	99,4	Min 99
Cl	0,01	Max 0,015
K	0,0003	Max 0,001
Na	0,06	Max 0,09
Mg	0,004	Max 0,01
SO ₄	0,04	Max 0,05
Fe ₂ O ₃	0,001	Max 0,003
Ca	0,01	Max 0,016
Loss at 550 C	0,52	Max 0,75

Method of analysis /titroprocess	
Chemical	Methot
Li ₂ CO ₃	Acidimetrically with H ₂ SO ₄
Cl	Argentom,titrating aparatus
K	FES/AAS
Na	FES/AAS
Mg	ICP-Metodu
SO ₄	IC
Fe ₂ O ₃	ICP-Metodu