

SILVER SULPHATE

I. Specifications & Characteristics:-

1. Chemical Structure	$\left[\begin{array}{c} \text{O} \quad \text{O} \\ \diagdown \quad / \\ \text{S} \\ / \quad \diagdown \\ \text{O}^- \quad \text{O}^- \end{array} \right] \left[\text{Ag}^+ \right]_2$
2. IUPAC name	Silver Sulphate
3. CAS Number	10294-26-5
4. Chemical formula	Ag_2SO_4
5. Molar Mass	311.799 gms/mol
6. Silver Content	69.19%
7. Appearance	White solid
8. Odour	Odourless
9. Form	Crystals / Grains



II. Typical Analysis:-

Type of Test	AR Grade		LR Grade	
	Specifications	Observed	Specifications	Observed
Assay (%)	99	>99.9	98.5	> 99
Insoluble matter & silver chloride	0.02(wt%)	< 0.01	0.02(wt%)	nil
Substances not precipitated by HCl	0.03(wt%)	≤ 0.01	0.03(wt%)	≤ 0.01
Solubility	33.3mg in 1ml nitric acid	pass	33.3mg in 1ml nitric acid	pass
Chloride (Cl)	0.001(wt%)	< 0.0009	0.002(wt%)	< 0.001
Nitrate (NO ₃)	0.00%	< 0.0005	0.00%	< 0.0009
Alkali & other metals	0.05(wt%)	< 0.01	0.05(wt%)	< 0.005
Bismuth(Bi)+Lead (Pb)	0.001(wt%)	≤ 0.0009	0.001(wt%)	< 0.0009
Copper (Cu)	0.0002(wt%)	< 0.1 ppm	0.0005(wt%)	< 0.1 ppm
Iron (Fe)	0.001(wt%)	< 0.1 ppm	0.005(wt%)	< 0.1 ppm

III. Grade / Denominations / Pack Size:-

Grade	Purity	Denomination/Pack Size
Commercial Grade	> 98.00 %	Multiples of 5000 gms or 10000 gms
Laboratory Grade (LR)	> 98.50 %	500 gms, 1000 gms, 5000 gms, 10000 gms
Analytical Grade (AR)	> 99.00 %	500 gms, 1000 gms, 5000 gms, 10000 gms

IV. Packaging: -

Black Pouches



Bottles



V. Applications : -

Used in Silver Plating,
Non staining substitute for Silver Nitrate

MODISON

THE SILVER PEOPLE

Modison Metals Limited

33 Nariman Bhavan, 227 Nariman Point, Mumbai, Maharashtra – 400021, India

Tel No.:+91-22-22026437 * Fax: +91-22-22048009 * Email: pgm@modison.com * Web: www.modison.com