Earth Resistance Reducing Material

GIM Light® ground improvement material



GIM Light® ground improvement material, 15 kg bag

GIM Light® specifications

- Complies with the international standard IEC 62561-7 and the Iranian Gas Company national standard IGS-I-EL-001
- Very low resistivity (ρ): below 1 Ω·m
- High polarisation resistance of 7.5 Ω·m² (suitable for normal environments)
- Does not corrode the earth conductor
- Laboratory test certificates from Tarbiat Modares University
- Resists dissolving in water and in acidic environments
- Bonds permanently to the earth conductor
- Electrical resistance stays stable over time
- Very long service life
- Considerably less material needed by volume
- Easy to install, saving time on site
- Allows smaller earthing grids
- Bag material: durable composite
- Approximate bag size: 10 × 40 × 60 cm
- Bag weight: 15 kg

GIM® and GIM Light® compared with the minimum requirements of IEC and IGS

Standard parameter	GIM®	GIM Light®	Standard limits
Resistivity (Ω·m)	Below 0.5	Below 1	To be stated in the catalogue
Polarisation resistance (Ω·m²)	9.6	7.61	Above 4
Permitted sulphur (%)	Below 1.4	Below 1.5	Below 2
Permitted iron (mg/lit)	0.21	0.17	0.3
Permitted copper (mg/lit)	0.03	0.04	0.05
Permitted zinc (mg/lit)	0.01	0.05	3
Permitted nickel (mg/lit)	0.04	0.01	0.07
Permitted cadmium (mg/lit)	0.002	0.002	0.003
Permitted cobalt (mg/lit)	0.01	0.03	0.05
Permitted lead (mg/lit)	0.008	0.01	0.01
Permitted arsenic (mg/lit)	0.009	0.008	0.01
Permitted barium (mg/lit)	0.06	0.05	0.1
Permitted chromium (mg/lit)	0.03	0.02	0.05
Permitted mercury (mg/lit)	0.0007	0.001	0.001

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GIM®, GIM Light® and ECO GIM® compared with the minimum requirements of IEC and IGS

Standard parameter	GIM®	GIM Light®	ECO GIM®	IEC 62561-7 limits	IGS-I-EL-001 limits
Resistivity (Ω·m)	Below 0.5	Below 1	Below 1	To be stated in the catalogue	To be stated in the catalogue
Polarisation resistance (Ω·m²)	Above 8	~7.5	~7.5	Above 4 for non-corrosive environments and above 8 for corrosive environments	Above 4 for non-corrosive environments and above 8 for corrosive environments
Permitted sulphur (%)	Below 1.4	Below 1.5	Below 1.9	Below 2	Below 2
Permitted iron (mg/lit)	0.21	0.17	0.18	0.3	0.3
Permitted copper (mg/lit)	0.03	0.04	0.03	0.05	0.05
Permitted zinc (mg/lit)	0.01	0.05	0.007	3	3
Permitted nickel (mg/lit)	0.04	0.01	0.05	0.07	0.07
Permitted cadmium (mg/lit)	0.002	0.002	0.001	0.003	0.003
Permitted cobalt (mg/lit)	0.01	0.03	0.03	0.05	0.05
Permitted lead (mg/lit)	0.008	0.01	0.01	0.01	0.01
Permitted arsenic (mg/lit)	0.009	0.008	0.009	-	0.01
Permitted barium (mg/lit)	0.06	0.05	0.05	-	0.1
Permitted chromium (mg/lit)	0.03	0.02	0.02	-	0.05
Permitted mercury (mg/lit)	0.0007	0.001	0.001	-	0.001

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