OCHNOLOGY SOLUTION PVT. LTD
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Product Data Sheet

TCCA 90 (Trichloroisocyanuric Acid) – Granular

Description

Description	TCCA 90 (Trichloroisocyanuric Acid) is a chlorine-based oxidising biocide supplied as a granular powder, providing a stable, slow-dissolving source of available chlorine for water disinfection and industrial sanitising applications. Its inherent cyanuric acid (isocyanurate) content helps protect available chlorine from rapid UV degradation, giving longer-lasting residual disinfection than unstabilised chlorine sources.
Applications	Swimming pool and spa water disinfection Drinking water treatment (municipal and emergency disinfection) Industrial cooling tower water treatment Textile bleaching and food/dairy equipment sanitisation
Grade	90% Min. Available Chlorine, Granular
CAS No.	87-90-1

Key Benefits

1. High available chlorine content (min. 90%) for efficient, low-dosage treatment
2. Slow-dissolving granular form gives stable, prolonged residual disinfection
3. Inherent cyanuric acid content protects available chlorine from UV degradation outdoors
4. Broad-spectrum efficacy against bacteria, viruses and algae
5. Versatile granular base suitable for further tableting or direct dosing systems

Chemical Analysis & Physical Data

Typical Specification

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Parameter	Unit	Specification
Available Chlorine (as Cl2)	wt%	Min. 90.0 (typical 90.0–90.5)
Moisture	wt%	Max. 0.5
pH (1% aqueous solution)	–	2.7 – 3.3
Bulk Density (Granular)	g/cm³	0.80 – 1.00
Water Solubility @ 25°C	g/100mL	≈ 1.2 (slow-dissolving)
Melting / Decomposition Point	°C	≈ 225 – 230 (decomposes)
Appearance	–	White granular powder with characteristic chlorine odour

Packaging

Packaging

25 kg / 50 kg UN-rated HDPE Drums (moisture-proof, DG-compliant)

Custom packaging available on request.

Note: TCCA is a Class 5.1 oxidiser – packaging must meet applicable UN/DG packaging requirements (see MSDS Section 14).

Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse away from direct sunlight and heat sources
2. Keep containers tightly sealed at all times – moisture ingress can trigger decomposition and release chlorine gas
3. Segregate from ammonia, amines, reducing agents, organic materials, acids and other oxidisers/chlorine products of a different chemical type
4. Never store or mix with other pool/water-treatment chemicals – cross-contamination is a recognised cause of fire and toxic gas release
5. Follow applicable Dangerous Goods storage segregation regulations

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Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting available chlorine, moisture and pH against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

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