



Technical Data Sheet:

R-E-D Dynapoz Metakaolin – 110 CR

R-E-D Dynapoz Metakaolin 110 CR is a supplementary cementitious material (SCM) produced from kaolin clay. Its chemistry is high in amorphous alumina (Al_2O_3) & silicon dioxide (SiO_2) which gives it excellent pozzolanic reactivity when used in concrete. **R-E-D Dynapoz Metakaolin** exceeds ASTM C1945 / ASTM C618 / AASHTO M295-11 standards.

Why Use R-E-D Dynapoz Metakaolin?

- Enhanced finish and appearance.
- Promotes increased compressive strength.
- Low-permeability & high-durability concrete:
 - Protects concrete from damage in aggressive environments: freeze thaw cycling, chloride exposure (marine & de-icing salts), high sulfate exposure, ASR, surface wearing and other forms of deterioration.
- DOT Approved.
- Helps achieve sustainability goals by lowering embodied carbon.
- Improve your ROI:
 - Increase your consistency for daily production.
 - Reduce surface defects and re-work.
 - Enhance durability and fewer call backs.
 - Seamless integration.

A Smarter Solution for Concrete, Grout & Mortar:

- Boost production Efficiency:
 - Consistent chemistry and physical properties.
 - Improve workability and flow for easy placement, casting and finishing.
- Deliver Superior Surface Quality:
 - Improve texture with smooth uniform finishes, reduced bug holes and bleed.
- Build Long-term Durability:
 - Very-low permeability.
 - Reduce Shrinkage and Cracking.
- Compatible with All Mixes:
 - Performs well with other SCMs, admixtures and steam curing.
 - Suitable for architectural, structural and infrastructure Pre-cast Products, Ready-Mix, Grout & Mortar.

Applications: Infrastructure Projects, Wastewater / Stormwater / Seawater Installations, Pre-cast, DOT projects, 1L Cement, Commercial Buildings & Floors, Architectural, Grout, Mortar Shotcrete / Gunite, Repair Products and Dry-Cast.

Packaging: Bulk, 2,000 lb. super-sacks, 40lb. Bags/50 per pallet.

Storage: Dry storage. Avoid contact with moisture.

Safety: Safety data sheet available upon request.

Environmental: Complies with ISO 14001:2000. EPD available upon request.



Physical and Chemical Characteristics

CHEMISTRY by XRF		SPECIFIC GRAVITY
SiO ₂ (%)	57.20	
Al ₂ O ₃ (%)	36.70	2.6 g/cc
Fe ₂ O ₃ (%)	1.78	
CaO (%)	0.48	
MgO (%)	0.36	
K ₂ O (%)	0.08	
Na ₂ O (%)	1.08	
TiO ₂ (%)	2.01	
P ₂ O ₅ (%)	0.12	
SrO (%)	0.04	

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