



Toyal Environmentally

“Green” Aluminium

Pigments

Toyol TG Series for Coatings



- **New range of aluminium pigments, produced through an environmentally friendly production process for the waterborne coatings market**
- **Manufactured and processed in water without hydrocarbon solvent**
- **Passivated by silica or phosphate**
- **No VOC solvent or hydrocarbons used, very low emissions during production**
- **Available as water carried paste or solvent free pellet, completely free of VOC**
- **Energy used for production is mainly from reusable sources**
- **Low carbon footprint**

Toyol TG Series for Coatings



- **Finished products have no residual hydrocarbon solvents or odour**
- **Products carried in water or surfactant**
- **Excellent regulatory profile**
- **Product types suitable for various food contact applications**
- **Environmentally friendly technology**
- **Statements relating to specific regulations available**

Toyol TG Series for Coatings



- **Suitable for various waterborne applications**
- **Including automotive coatings, plastic coatings, coil coatings, can coatings, general industrial and other coatings applications**
- **Free of mineral oils, mineral spirits and hydrocarbon solvents**
- **No trace of any residual VOC**
- **Excellent chemical resistance and stability in the final application, particularly when silica coated**

CO2 Emission Comparison



Toyal Product Series	Approximate CO2 Emission
Alpate	0.2 kg per kg product produced
EMR D	0.4 kg per kg product produced
TG-SD-W	0.04 kg per kg product produced
TG-SD-PL	0.12 kg per kg product produced

TG-SD-W Product Range



- **A range of fine to coarse silver dollar types, free from any VOC**
- **Phosphate stabilised to minimise gassing in water-based coatings**
- **Supplied as an easily dispersible paste carried in water**
- **Thin Silver Dollar and standard Silver Dollar types available**
- **Easier to ship, store and handle due to the Non-DG categorisation**
- **Made in Europe**

Toyol TG-SD-W Series for Coatings



Toyol Product	d50	Flake Type	Carrier
TG-SD1000W	10um	Thin Silver Dollar	Water
TG-SD1100W	11um	Standard Silver Dollar	Water
TG-SD1500W	15um	Thin Silver Dollar	Water
TG-SD1600W	16um	Standard Silver Dollar	Water
TG-SD2100W	21um	Thin Silver Dollar	Water

Toyol TG-SD-W Series for Coatings



Toyol Product	d50	Flake Type	Carrier
TG-SD3200W	32um	Standard Silver Dollar	Water
TG-SD5200W	52um	Standard Silver Dollar	Water
TG-SD8000W	80um	Standard Silver Dollar	Water

TG-WSD-PL – Product Range



- **Fine to coarse silver dollar products in soft pellet form**
- **Solvent free, VOC free, supplied at 80% aluminium pigment content**
- **Silica coated to give maximum stability in water-borne systems**
- **Manufactured without hydrocarbon, carried in surfactant**
- **Easier for shipping, storage and handling due to the Non-DG classification**
- **Made in Europe.**

Toyol TG-WSD-PL Series for Coatings



Toyol Product	d50	Flake Type	Carrier
TG-WSD10PL	10um	Thin Silver Dollar	Surfactant
TG-WSD11PL	11um	Standard Silver Dollar	Surfactant
TG-WSD15PL	15um	Thin Silver Dollar	Surfactant
TG-WSD16PL	16um	Standard Silver Dollar	Surfactant
TG-WSD21PL	21um	Thin Silver Dollar	Surfactant

Toyol TG-WSD-PL Series for Coatings



Toyol Product	d50	Flake Type	Carrier
TG-WSD32PL	32um	Standard Silver Dollar	Surfactant
TG-WSD52PL	52um	Standard Silver Dollar	Surfactant
TG-WSD80PL	80um	Standard Silver Dollar	Surfactant