

5 Functions of Compound

- 1 Water Softening Function**
Softens water so as to make compound perform its function efficiently.
- 2 Cleaning Function**
Maintains the surface of workpieces and abrasive media clean and enhance finishing efficiency.
- 3 Shock Absorbing Function**
Foaming absorbs the impingement of workpieces and abrasive media, which reduces damages to workpieces as well as contributing to degree of luster.
- 4 Lubricating Function**
Contributes to luster finish and smoothing as well as enhancement of finishing efficiency by proper lubricity.

- 5 Rust Inhibiting Function**
Prevents workpieces from getting rusted during finishing process and separating process immediately after finishing process.

Powder Compound

Product Name	Finishing Purpose						Workpieces Material				
	Descaling	Degreasing	Rough Finishing	Middle Finishing	Luster Finishing	Rust Inhibiting	Iron-Steel	Stainless Steel	Aluminium	Zinc	Copper
CO-16			○				○	○	○	○	
CO-56		○	○			○	○	○			
CO-74		○	○	○			○	○			
CO-99		○	○				○	○			
CO-63B			○				○	○			
CO-900	○		○				○	○			
FX-06		○			○		○	○			
FX-36					○		○	○			
FX-76					○		○	○	○		
FX-99					○		○	○			
CCU-500					○				○	○	○

○ Recommended ○ Suited Rough Finishing Descaling Luster Finishing

Environment • Workability					Usage Amount (Per 1ltr Water)	Benefit	Package (kg)
Not Applicable to PRTR Law	No Nitrogen	No Phosphorus	Low Foaming	pH (2%Solution)			
		○		11.0	10~20g	Abrasive grits contained, improved in hygroscopic solidification and solution redispersibility.	20
○	○		○	12.2	10~20g	Excellent in degreasing and rust inhibiting performance BOD and COD free.	20
○	○		○	11.4	10~20g	For rough finishing, excellent in degreasing and cleaning performances.	20
○	○	○	○	10.9	10~20g	A completely dissolved compound in water and for rough finishing with no ingredients remained on the workpiece.	20
○	○		○	12.8	10~20g	Abrasive grits contain. Not applicable to PRTR Law. For low BOD and low COD.	20
○	○			6.7	10~20g	Long-life, Superior descaling, Heavy-grinding compound for iron, steel and stainless steel.	20
				10.3	10~20g	Cleaning specialization, for luster finishing.	15
	○			11.0	10~20g	Substances subject to Industrial Safety and Health Act notification and Nitrite-free.	15
		○		11.3	10~20g	Best for luster finishing by steel balls. Nitrite-free.	15
○	○	○		10.7	10~20g	A completely dissolved compound in water and for luster finishing with no ingredients remained on the workpiece.	10
	○	○		7.6	10~20g	For luster finish for soft metals, best for copper products.	20

Liquid Compound

Product Name	Finishing Purpose						Workpieces Material				
	Descaling	Degreasing	Rough Finishing	Middle Finishing	Luster Finishing	Rust Inhibiting	Iron-Steel	Stainless Steel	Aluminium	Zinc	Copper
LC-102		○					○	○			
LC-125		○					○	○	○	○	○
LC-135		○	○	○			○	○	○	○	○
LC-235			○	○			○	○	○	○	○
LC-285		○		○	○	○	○	○			
LC-613		○	○			○	○	○			
LC-617		○	○			○	○	○			
LC-400					○		○	○	○	○	○
LC-419					○		○	○	○	○	○
LC-475					○		○	○			
LC-496					○		○	○			○
LC-506					○		○	○			○
LC-513		○			○		○	○	○	○	○

○ Recommended ○ Suited Rough/Medium Finishing Luster Finishing Degreasing

Environment • Workability					Usage Amount (Per 1ltr Water)	Benefit	Package (kg)
Not Applicable to PRTR Law	No Nitrogen	No Phosphorus	Low Foaming	pH (1%Solution)			
○				9.6	10~20mℓ	Effective as degreasing agent. Not applicable to PRTR Law. Nitrite-free.	18
○				7.8	10~20mℓ	For degreasing, neutral and nitrite-free. Not applicable to PRTR Law.	18
				8.4	10~20mℓ	For degreasing, neutral and nitrite-free, medium finishing applicable.	18
○			○	8.3	10~20mℓ	Best for rough to medium finishing, excellent in degreasing and rust inhibiting performance, stable in hard water.	18
		○		11.6	10~20mℓ	For medium finishing, excellent in degreasing and rust inhibiting performance, nitrite-free.	18
				11.6	10~20mℓ	Basic liquid compound for rough finishing, high performance in both cleaning and rust inhibiting function.	18
○			○	10.2	10~50mℓ	No Stains by drying. Excellent rust inhibiting performance.Reduction of waste water chemicals.	18
				8.5	10~20mℓ	Best for luster finish for aluminum. Nitrite-free.	18
		○	○	9.2	10~20mℓ	For luster finishing low BOD and low COD.	18
				9.7	10~20mℓ	Best for Centrifugal & Centrifugal Disc Finishing nitrite-free.	18
		○		9.7	10~20mℓ	For luster finish with redness of copper products. Nitrite-free .	18
		○		10.7	10~20mℓ	Best for luster finish for copper and copper alloy. Nitrite-free.	18
				8.9	10~20mℓ	Superior in degreasing and cleaning performances, applicable for luster finishing for all metals nitrite-free.	18

※ Standard endurance time of compound is 15 hours for Rotary Barrel, 2 hours for Vibratory Barrel, 0.5 hours for Centrifugal Barrel, 1 hour for Centrifugal Disc.
 If the finishing time excess the compound endurance time, change-over of water and compound is required.
 Workpieces material and mixing ratio affect the endurance time, which comes to be extended or decreased.
 ※ Natural raw materials are employed partially among raw materials.
 Therefore, appearance color of compound may change depending on the product lot and storage conditions, which does not affect the performance.
 ※ Compound should be stored in room temperature. Needle crystal, high viscosity, white turbidity and separation may happen unless stored in room temperature.
 If the phenomenon happens, restore the compound in room temperature, and continue to be used when the phenomenon disappears.
 If the phenomenon remains unchanged, please stop using such lot.

※ Ph value of compound shows a representative value, which does not show the specifications.
 ※ About the description of BOD/COD free:
 It is defined as the element free as well as BOD/COD free compound subject to less than 1 ppm of corresponding value based on 0.1% solution.
 ※ For materials (iron / steel) that may rust after barrel finishing, please treat rust prevention.

ECO Compound

There are various types of ECO compounds available including, Phosphorus Free, Nitrogen Free, BOD Free, COD Free, Low BOD, and Low COD Types.

Product Name	Finishing Purpose						Workpieces Material				
	Descaling	Degreasing	Rough Finishing	Middle Finishing	Luster Finishing	Rust Inhibiting	Iron•Steel	Stainless Steel	Aluminium	Zinc	Copper
ECO-568			○	○			○	○	○	○	○
ECO-582			○	○			○	○			
ECO-660		○	○			○	○	○	○	○	
ECO-576L			○	○			○	○			
ECO-618L		○	○			○	○				
ECO-750L		○					○	○			

○ Recommended ○ Suited Rough Finishing Degreasing

Environment • Workability						Benefit	Package (kg)
Not Applicable to PRTR Law	No Nitrogen	No Phosphorus	Low Foaming	pH (Solution)	Usage Amount (Per 1ltr Water)		
○	○		○	12.4(2%)	10~20g	BOD and COD free and low foaming.	18(Powder)
○	○	○	○	12.4(2%)	10~20g	BOD, COD, phosphorous and nitrogen free.	15(Powder)
○	○		○	11.5(2%)	10~20g	Excellent in degreasing and rust inhibiting performances.	18(Powder)
○	○		○	12.0(1%)	10~20mℓ	BOD and COD free and low foaming.	20(Liquid)
○		○	○	10.8(1%)	10~20mℓ	Excellent in degreasing and rust inhibiting performances.	18(Liquid)
			○	9.6(1%)	10~20mℓ	Excellent in degreasing and cleaning performances.	18(Liquid)

Rust Inhibitor

These products are developed for rust inhibiting and corrosion prevention of workpieces after barrel finishing.

Product Name	Finishing Purpose						Workpieces Material				
	Descaling	Degreasing	Rough Finishing	Middle Finishing	Luster Finishing	Rust Inhibiting	Iron•Steel	Stainless Steel	Aluminium	Zinc	Copper
LC-801						○	○	○			
LC-855						○	○	○			
TH-BIS						○	○	○			
ECO-356L						○	○	○	○	○	○

○ Recommended ○ Suited Rust Inhibitor

Environment • Workability						Benefit	Package
Not Applicable to PRTR Law	No Nitrogen	No Phosphorus	Low Foaming	pH (1%Solution)	Usage Amount (Per 1ltr Water)		
			○	10.2	20~50mℓ	Water-soluble temporary rust inhibiting agent, colorless and transparent.	18kg(Liquid)
			○	9.1	20~50mℓ	Water soluble temporary rust inhibiting agent, nitrite-free.	18kg(Liquid)
		○	○	11	20~50mℓ	Water-soluble temporary rust inhibiting agent.	18kg(Liquid)
○	○	○	○	-	Undiluted Solution	Water-substitution long-term rust inhibiting agent.	18ℓ (Liquid)

※Standard endurance time of compound is 15 hours for Rotary Barrel, 2 hours for Vibratory Barrel, 0.5 hours for Centrifugal Barrel, 1 hour for Centrifugal Disc.
 If the finishing time excess the compound endurance time, change-over of water and compound is required. Workpieces material and mixing ratio affect the endurance time, which comes to be extended or decreased.
 ※Natural raw materials are employed partially among raw materials.
 Therefore, appearance color of compound may change depending on the product lot and storage conditions, which does not affect the performance.
 ※Compound should be stored in room temperature. Needle crystal, high viscosity, white turbidity and separation may happen unless stored in room temperature.
 If the phenomenon happens, restore the compound in room temperature, and continue to be used when the phenomenon disappears. If the phenomenon remains uncharged, please stop using such lot.
 ※Ph value of compound and rust inhibitor shows a representative value, which does not show the specifications.
 ※About the description of compound element free and BOD/COD free:
 It is defined as the element free as well as BOD/COD free compound subject to less than 1 ppm of corresponding value based on 0.1% solution.
 ※For materials (iron / steel) that may rust after barrel finishing, please treat rust prevention.

•ELV • RoHS Restriction of Hazardous Substances
 Our abrasive media does not intentionally include the environmentally hazardous substances that meet the ELV / RoHS Directive.

* BOD: Biochemical Oxygen Demand
 * COD: Chemical Oxygen Demand.
 * Ph : Density of Hydrogen Ion.
 * PRTR LAW : Information on total discharging amount of specified chemical substances and laws about promoting effective management.

