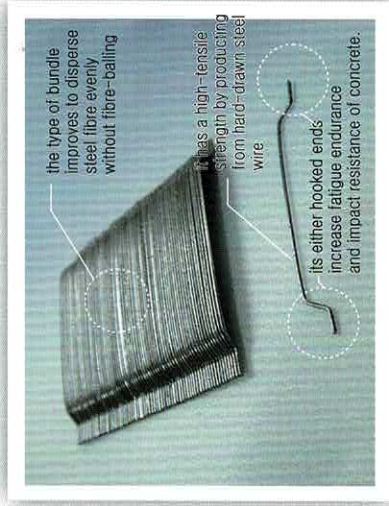


ULTRA FIBRE CHIP

DAEIN CORPORATION



WHY ULTRA FIBRE CHIP?

ECONOMIC EFFICIENCY & QUALITY

- No needs for separate dispersion systems or equipments of Batchter plant.
- No needs for special labors to mix concrete evenly.
- Prevents lumping of concrete.
- Minimize working hours without delay of works by clogging of pipes or nozzles.
- Expects high quality SFRC from its high aspect ratio.

THE EXPECTED EFFECT IN SPECIFIC USES

Characteristics	Tunnel	Dam	Pavement of a road	Bridge deck	Slope	Factory floors	Building	Precast product
crack resistance	◎	◎	◎	◎	◎	◎	◎	◎
impact resistance	△	◎	◎	◎	◎	◎	△	◎
abrasion resistance	△	◎	◎	◎	-	◎	△	△
freeze thaw resistance	◎	◎	◎	◎	◎	◎	◎	◎
fatigue endurance	-	-	◎	◎	-	◎	-	◎
refractory resistance	◎	-	-	△	-	◎	◎	◎
shear resistance	◎	-	◎	◎	◎	◎	◎	◎
reduction of thickness	◎	△	◎	◎	◎	△	◎	◎
reduction of costs	◎	-	◎	△	◎	◎	◎	◎

◎ excellent ○ good △ fair

SPECIFICATIONS

Models	Lenght (mm)	Diameter (mm)	Aspect Ratio	Tensile Strength (N/mm ²)	Details
UF055-3564NPA	35	0.55	64	1,100	
UF065-3554NPA	35	0.65	54	1,050	
UF075-6080NPA	60	0.75	80	1,000	
UF090-6067NPA	60	0.90	67	1,000(900)	
UF053-3566NP	35	0.53	66	1,250	High
UF063-3555NP	35	0.63	55	1,250	T/S
UF075-6080NP	60	0.75	80	1,150	
UF090-6067NP	60	0.90	67	1,050	
Tolerance	±5%	±5%	±5%	±7.5%	

Applicable Standard

- Construction Products Directive 89/106/EEC
- EN 14889-1 : 2006 Fibres for concrete. Part 1 : Steel fibre - Definition, specification and conformity

INPUT FOR USE

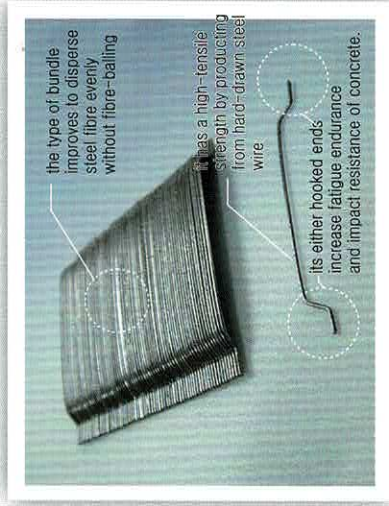
USE	Dosage (Kg/m ³)	References
Shotcrete	25~40	UF055-3564NPA
Lining	20~30	UF065-3554NPA
Floors	10~60	
Road pavement	30~40	UF075-6080NPA
Bridge deck	30~60	UF090-6067NPA
Machinery	40~60	

Ordering Method / Packing

- Non water-soluble bag of 20kg
- Outside cover : 3 layers white or yellow kraft paper
- Inside cover : polyethylene (if coating inside bag is needed)
- Size : 365 x 700 x 80
- 50 bags on a pallet : 1,000kg
- Packing option : as per buyer's request. (1ton bag available)
- 20ft container (20,000kg)

ULTRA FIBRE CHIP

DAEIN CORPORATION



WHY ULTRA FIBRE CHIP?

ECONOMIC EFFICIENCY & QUALITY

- No needs for separate dispersion systems or equipments of Batchers plant.
- No needs for special labors to mix concrete evenly.
- Prevents lumping of concrete.
- Minimize working hours without delay of works by clogging of pipes or nozzles.
- Expects high quality SFRC from its high aspect ratio.

THE EXPECTED EFFECT IN SPECIFIC USES

Characteristics	Tunnel	Dam	Pavement of a road	Bridge deck	Slope	Factory floors	Building	Precast product
crack resistance	◎	◎	◎	◎	◎	◎	◎	◎
impact resistance	△	◎	◎	◎	◎	◎	△	◎
abrasion resistance	△	◎	◎	◎	-	◎	△	△
freeze thaw resistance	◎	◎	◎	◎	◎	◎	◎	◎
fatigue endurance	-	-	◎	◎	-	◎	-	◎
refractory resistance	○	-	-	△	-	◎	◎	◎
shear resistance	◎	-	◎	◎	◎	◎	◎	◎
reduction of thickness	◎	△	◎	◎	◎	△	◎	◎
reduction of costs	○	-	◎	△	◎	◎	◎	◎

◎ excellent ○ good △ fair

SPECIFICATIONS

Models	Lenght (mm)	Diameter (mm)	Aspect Ratio	Tensile Strength (N/mm ²)	Details
UF055-3564NPA	35	0.55	64	1,100	
UF065-3554NPA	35	0.65	54	1,050	
UF075-6080NPA	60	0.75	80	1,000	
UF090-6067NPA	60	0.90	67	1,000(900)	
UF053-3566NP	35	0.53	66	1,250	High
UF063-3555NP	35	0.63	55	1,250	T/S
UF075-6080NP	60	0.75	80	1,150	
UF090-6067NP	60	0.90	67	1,050	
Tolerance	±5%	±5%	±5%	±7.5%	

Applicable Standard

- Construction Products Directive 89/106/EEC
- EN 14889-1 : 2006 Fibres for concrete. Part 1 : Steel fibre - Definition, specification and conformity

INPUT FOR USE

USE	Dosage (Kg/m ³)	References
Shotcrete	25~40	UF055-3564NPA
Lining	20~30	UF065-3554NPA
Floors	10~60	
Road pavement	30~40	UF075-6080NPA
Bridge deck	30~60	UF090-6067NPA
Machinery	40~60	

Ordering Method / Packing

- Non water-soluble bag of 20kg
- Outside cover : 3 layers white or yellow kraft paper
- Inside cover : polyethylene (if coating inside bag is needed)
- Size : 365 x 700 x 80
- 50 bags on a pallet : 1,000kg
- Packing option : as per buyer's request. (1ton bag available)
- 20ft container (20,000kg)