



Steelfiber

CHO 65/35 NB

C	H	O	65	35	N	B
Collated (Glued)	Hooked- end	Ordinary	Aspect ratio	Length	Normal	Bright

Description

C Collated

Several dozens of wires are collated by special glue.

H Hooked-ends

Fibers should be secured for high anchoring.

O Ordinary

The hooks are well designed for good performance.

65 Aspect ratio

Aspect ratio means ratio of length to diameter. This aspect ratio and length are main factors for shotcreting quality.

35 Length of steel fiber

Length of fiber should be min 2 times of max aggregate size.

N Normal low carbon

Quality meets KS D 3552 SWM-B
JIS G 3552 SWM-B

Tensile strength : min 13,000kg/cm²
(1,300N/mm²)

-test method : KS B 0802

B Bright

Bright steel is the norm for steel fibers in concrete

Application

- Shotcrete reinforcement
- Precast reinforcement

Quality

- ISO 9001, ISO 14001
- Meets ASTM A820

Fiber quantity & length

- Approximately 14,000~15,000pieces/kg
- Fiber Length : 536m/kg

Packing

- 20kg degradable bag
- 1ton bag

How to dose

- Manual counting
- Automatic dosing machine

How to input into mixer

- By using conveyor belt
- By airblower

Performance

Its performance depends on dosage. Pls check performance data when designing.

Flexural tensile strength $f_{u,fl}$

$$F_{u,fl} = 0.4 \times (f_c)^{2/3}$$

f_c ; cylinderic compressive strength
N/mm²

Equivalent flexural strength is tested by JSCE – SF4 for 3mm deflection.

Equivalent flexural toughness ratio $R_{e,3}$

$$R_{e,3} = \frac{\text{Equivalent flexural strength}}{\text{flexural strength} \times 100}$$

Dosage kg/m ³	25	30	35	40	45	50
$R_{e,3}$	50	56	66	70	75	80

Tensile strength after cracking

$$f_t = 0.37 \times \text{equivalent flexural strength}$$

Minimum dosage

based on spacing theory according to Romualdi & Mandel's equation

$$S = 13.8d \sqrt{1/V_f}$$

(d:diameter, V_f :volume fraction)

Type	Length	Dia	Aspect Ratio	pc/kg	m/kg	0.4*length		Quality
						Min Space	Min kg	
50/25	25	0.5	50	24,041	649	10	37	Worst
60/30	30	0.5	60	20,285	649	12	26	Good
55/30	30	0.55	55	16,764	536	12	31	Fair
45/30	30	0.7	43	10,349	331	12	51	Worst
30/0.8	30	0.8	38	7,924	254	12	66	Worst
70/35	35	0.5	70	17,544	649	14	19	Best
65/35	35	0.55	64	14,499	536	14	23	Good
50/35	35	0.7	50	8,951	331	14	37	Worst
45/35	35	0.75	47	7,797	288	14	43	Worst

** Max space for reinforcement is 0.4 times of fiber length

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