

COLLECTION: LIRO

DESIGN: LIRO

## BASIC INFORMATION

|                              |            |                                     |             |
|------------------------------|------------|-------------------------------------|-------------|
| Brand                        | FR-One     | Number of colour ways               | 26          |
| Tariff item number           | 5407920000 | MID                                 | TRTEXTRABUR |
| Country of origin            | Turkey     | Characteristics                     | Flat Weave  |
| Vertical repeat cm           | Plain      | Vertical repeat inch                | Plain       |
| Horizontal repeat cm         | Plain      | Horizontal repeat inch              | Plain       |
| Double folded face in        | Yes        | Full roll diameter cm               | 21          |
| Full roll diameter inch      | 8.27       | Average piece length m              | 40          |
| Minimum for special colour m | 1000       | Delivery time weeks special lab dip | 2           |
| Railroaded                   | Yes        |                                     |             |

## CARE AND USAGE

also washable at 74°C /160F meeting American hospital  
Care code comments washing standard AATCC96

### Care codes



Care code for bleaching

Do not bleach

### Use codes

|          |     |                        |     |
|----------|-----|------------------------|-----|
| Curtains | Yes | Curtains and draperies | Yes |
| Maritime | Yes |                        |     |

## ENVIRONMENTAL STANDARDS

ISO 14001

Environmental  
Management



STANDARD  
100  
0611045  
Centexbel

PFA-free

Yes

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## FR STANDARDS

|                                          |     |                                |     |
|------------------------------------------|-----|--------------------------------|-----|
| AATCC 96 Complies                        | Yes | ASNZS 1530.2 Pass              | Yes |
| ASNZS 1530.3 Pass                        | Yes | British BS 5867 part 2 type B  | Yes |
| American BFD IX 1                        | Yes | American CAL 19 section 1237.1 | Yes |
| Canadian ULC S109 large flame            | Yes | Canadian ULC S109 small flame  | Yes |
| German B1 DIN 4102                       | Yes | European EN 13773              | Yes |
| MVSS 302                                 | Yes | IMO FTPC part 7 drapery        | Yes |
| French NF P 92-503 507                   | M1  | French NF P 92-504 507         | M1  |
| French NF P 92-505 507                   | M1  | American NFPA 701 2010         | Yes |
| NYNJ Port Authority - FAR 25.853 12 Pass | Yes | SN 198'898 Class 5.2           | Yes |
| Taiwanese CNS10285-L31961                | Yes |                                |     |

## FABRIC SPECIFICATIONS

|                          |                                    |                     |                          |
|--------------------------|------------------------------------|---------------------|--------------------------|
| Composition              | 100% Polyester                     | Average yarn number | 15.29                    |
| Construction             | 10x16                              | Woven               | Yes                      |
| Useable width cm         | 310                                | Useable width inch  | 122.05                   |
| Full width cm            | 312                                | Full width inch     | 122.83                   |
| Weight g/m <sup>2</sup>  | 170                                | Thickness mm        | 0.370                    |
| Colouring type           | Piece dyed                         | Filament or staple  | 74% Filament, 26% Staple |
| Textured or non textured | 41,5% Textured, 58,5% Not Textured |                     |                          |

### Type of finish

|             |     |            |     |
|-------------|-----|------------|-----|
| Calender    | Yes | Sanforized | Yes |
| Thermofixed | Yes |            |     |

### Type of print or dye

|          |     |
|----------|-----|
| Disperse | Yes |
|----------|-----|

### Weaving type

|       |     |
|-------|-----|
| Dobby | Yes |
|-------|-----|

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## MECHANICAL PERFORMANCE

|                                         |                  |                          |     |
|-----------------------------------------|------------------|--------------------------|-----|
| AATCC 96 - 165°F / 74°C - Complies      | Yes              | Colour fastness to light | 5-6 |
| Pilling                                 | 3                | Brush pilling            | 3   |
| Acoustic absorption ISO 354 - ISO 11654 | draped C/ flat D |                          |     |

### Colour fastness to light - ISO 105-B02

|                          |     |
|--------------------------|-----|
| Colour fastness to light | 5-6 |
|--------------------------|-----|

### Colour fastness to water - ISO 105-E01

|                          |   |
|--------------------------|---|
| Colour fastness to water | 5 |
|--------------------------|---|

### Colour fastness to dry rub - ISO 105-X12

|                         |     |
|-------------------------|-----|
| Colour fastness dry rub | 4-5 |
|-------------------------|-----|

### Colour fastness to wet rub - ISO 105-X12

|                         |     |
|-------------------------|-----|
| Colour fastness wet rub | 4-5 |
|-------------------------|-----|

### Tearing strength - ISO 13937-3

|                         |    |                         |    |
|-------------------------|----|-------------------------|----|
| Tearing strength warp N | 76 | Tearing strength weft N | 81 |
|-------------------------|----|-------------------------|----|

### Tensile strength - ISO 13934-1

|                             |     |                             |      |
|-----------------------------|-----|-----------------------------|------|
| Tensile strength warp N/5cm | 950 | Tensile strength weft N/5cm | 1000 |
|-----------------------------|-----|-----------------------------|------|

### Dimensional stability (indicated in %) - ISO 3759

|                                                     |      |                                                     |       |
|-----------------------------------------------------|------|-----------------------------------------------------|-------|
| Dimensional change warp                             | 0.05 | Dimensional change weft                             | -0.15 |
| Dimensional change warp after ironing without steam | 0.00 | Dimensional change weft after ironing without steam | 0.00  |
| Dimensional change warp after ironing with steam    | 0.00 | Dimensional change weft after ironing with steam    | 0.00  |

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## WASHABILITY

### Resistance to domestic washing 30° C, indicated in % - ISO 6330

|                             |       |                                       |      |
|-----------------------------|-------|---------------------------------------|------|
| Dimensional change warp     | 0.07  | Dimensional change warp after ironing | 0.00 |
| Dimensional change weft     | -0.23 | Dimensional change weft after ironing | 0.00 |
| Colour fastness ISO 105 C06 | 4-5   |                                       |      |

### Resistance to domestic washing 60°C, indicated in % - ISO 6330

|                             |       |                                       |       |
|-----------------------------|-------|---------------------------------------|-------|
| Dimensional change warp     | -0.10 | Dimensional change warp after ironing | -0.07 |
| Dimensional change weft     | -0.80 | Dimensional change weft after ironing | -0.53 |
| Colour fastness ISO 105 C06 | 4-5   |                                       |       |

### Resistance to domestic washing 74°C, indicated in % - AATCC 96

|                         |      |                         |      |
|-------------------------|------|-------------------------|------|
| Dimensional change warp | 0.00 | Dimensional change weft | 0.00 |
|-------------------------|------|-------------------------|------|

### Resistance to dry cleaning P, indicated in % - ISO 105 D01

|                             |       |                                       |       |
|-----------------------------|-------|---------------------------------------|-------|
| Dimensional change warp     | -0.07 | Dimensional change warp after ironing | -0.20 |
| Dimensional change weft     | -0.23 | Dimensional change weft after ironing | -0.20 |
| Colour fastness ISO 105 D01 | 5     |                                       |       |

## CONSTRUCTION

### Yarn 1

|                           |                            |                  |     |
|---------------------------|----------------------------|------------------|-----|
| Warp Composition          | 100% Polyester inherent FR | Warp Is Filament | Yes |
| Warp Is Not High Tenacity | Yes                        | Warp Is Textured | Yes |
| Warp Sizes                | 691D                       | Warp Textured    | Yes |
| Warp Threads per cm       | 10                         | Warp TPM         | 0   |

### Yarn 2

|                           |                            |                     |      |
|---------------------------|----------------------------|---------------------|------|
| Weft Composition          | 100% Polyester inherent FR | Weft Is Filament    | Yes  |
| Weft Is Not High Tenacity | Yes                        | Weft Is Staple      | Yes  |
| Weft Is Textured          | Yes                        | Weft Sizes          | 490D |
| Weft Textured             | Yes                        | Weft Threads per cm | 16   |
| Weft TPM                  | 0                          |                     |      |

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## DOWNLOADS / CERTIFICATES

- |                                                                                                                                                                                        |                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"> <u>Liro_AustralianNew Zealand AS 1530 part 2</u></a>                                     | <a href="#"> <u>FROne_Sound absorption page</u></a>                       |
| <a href="#"> <u>Liro_French NF P 92 503 507 M1</u></a>                                                | <a href="#"> <u>Liro_Swiss SNV 198898</u></a>                             |
| <a href="#"> <u>Liro_American Hospital washing standard AATCC96</u></a>                               | <a href="#"> <u>Liro_Japanese JIS L1091</u></a>                           |
| <a href="#"> <u>Liro_American Boston BFD IX1</u></a>                                                  | <a href="#"> <u>Liro_British BS 5867 part 2 type B</u></a>                |
| <a href="#"> <u>Liro_International Maritime Organisation FTP Code_Fire test procedures Part 7</u></a> | <a href="#"> <u>Liro_European EN 13773</u></a>                            |
| <a href="#"> <u>Liro_British BS 5867 part 2 type C</u></a>                                            | <a href="#"> <u>Liro_American FMVSS 302</u></a>                           |
| <a href="#"> <u>Liro_Canadian CANULCS109</u></a>                                                      | <a href="#"> <u>Liro_American CAL 19</u></a>                              |
| <a href="#"> <u>Liro_American New York Port Authority FAR Part 25_853 12 Second Vertical Test</u></a> | <a href="#"> <u>Liro_Acoustic sound absorption measurement DRAPED</u></a> |
| <a href="#"> <u>Liro_German DIN 4102_B1</u></a>                                                       | <a href="#"> <u>Liro_Taiwanese CNS 10285 L3196</u></a>                    |
| <a href="#"> <u>Liro_American NFPA 701</u></a>                                                        | <a href="#"> <u>LiroItalian UNI 9177 Classe Uno</u></a>                   |
| <a href="#"> <u>Liro_AustralianNew Zealand AS 1530 part 3</u></a>                                     |                                                                                                                                                            |

