

## STELLARFLEX FR

### AIRPORT GRADE FUEL-RESISTANT HOT ASPHALT MIX

#### PRODUCT DESCRIPTION

**STELLARFLEX FR** is a speciality asphalt mixture uniquely formulated to be resistant to diesel and jet fuel. It can be used for a wide range of applications:

- Airport pavements (runway, taxiway, and de-icing stations)
- Heavily loaded pavement with high and slow truck traffic
- Fuelling stations and fuel storage tank areas
- Truck stops

#### GENERAL PRODUCT FEATURES

**STELLARFLEX FR** uses customer-specified aggregate and is designed to meet and exceed the requirements of the relevant specifications.

- Uniquely formulated asphalt binder resists diesel and jet fuel.
- Elevated AC content provides durability and extended fatigue life under repetitive heavy traffic.
- Engineered binder enhances surface's resistance to extremely low temperature cracking.
- Uses high-quality aggregate with a gradation tailored to providing superior rut and fatigue

#### SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	FAA P-601 SPEC RANGE	
		Min	Max
<b>Gradation and PGAC</b>			
9.5 mm, % passing	<b>88</b>	79	99
4.75 mm, % passing	<b>66</b>	58	78
2.36 mm, % passing	<b>46</b>	39	59
0.075 mm, % passing	<b>6</b>	3	6
AC Content, %	<b>6.0</b>	5	8
Minimum PG Spread, °C	<b>110</b>	110	-
<b>Volumetric and Performance Requirements</b>			
Marshall Flow, 0.25 mm	<b>19.8</b>	-	-
Marshall Stability, N	<b>15000</b>	9567	-
Air Voids, %	<b>2.50</b>	2.30	2.70
24-hr Mass Loss After Jet Fuel Immersion, %	<b>0.80</b>	-	1.15
Retained Stability After 24-hr Jet Fuel Immersion, %	<b>75</b>	-	-

#### DESIGN GUIDELINES

**STELLARFLEX FR** specifications will vary based on jurisdiction and local practices. **MCA Technical Services** will design a custom mix to meet all FAA specifications (i.e P401, P601) and performance criteria required.

Our staff will:

- select and formulate the highly modified PGAC (**STELLARFLEX FR PMA**) required;
- select the appropriate aggregate and blending proportions;
- design the mix and exceed all volumetric requirements;
- carry out performance testing; and
- provide application recommendations.



#### MCASPHALT INDUSTRIES LIMITED

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mcasphalt.com  
 ISO 9001/14001, 45001

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#### CERTIFICATION OF QUALITY

McAsphalt Industries Limited is accredited to the quality management standard **ISO 9001**, the environmental management standard **ISO 14001**, and the occupational health and safety standard **ISO 45001**.

McAsphalt's quality control plan is available to you, providing guidance on the production, lay-down, and compaction processes required to correctly apply **STELLARFLEX FR** as well as offering continuous technical support during construction.

The quality control plan will ensure that:

- the **STELLARFLEX FR** is produced at the recommended temperature;
- the **STELLARFLEX FR PMA** is formulated to meet requirements and shipped at the correct temperature;
- the appropriate lay-down equipment is utilized; and
- the proper mix compaction is utilized to achieve **STELLARFLEX FR**'s target density

#### PRODUCT SUPPORT

With the **MCA Advantage**, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes, and material selection. By developing innovative, custom-designed products that offer additional benefits such as peak performance in unique conditions, improved field performance, and greater environmental and health benefits, the **MCA Advantage** provides significant long-term cost savings, resulting in lower total cost of ownership.



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