

**LISTE DES FOURNISSEURS DE CODE BARRES ET PUCES RFID POUR
PNEUMATIQUES HOMOLOGUES PAR LA FIA
LIST OF SUPPLIERS FOR TYRE BARCODES AND RFID TAGS
HOMOLOGATED BY THE FIA**



LISTE TECHNIQUE N° 54 / TECHNICAL LIST N° 54

**Liste des fournisseurs de code barres pour tous les championnats FIA
exceptés le Championnats Formula E et
le Championnat d'Europe FIA des Rallyes Sportifs Historiques**

***List of suppliers for barcodes for all FIA Championships
except FIA Formula E Championship and
FIA European Historic Sporting Rally Championship***

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**Spécifications requises pour les code barres
Required specifications for the barcodes**

Type	
- Single barcodes:	
- Double barcodes:	
Material	
- Rubber base	
- To be used before vulcanisation	
Size	
- Single barcodes:	42mm * 14mm and 50mm * 14mm with RFID logo
- Double barcodes:	84mm * 14mm and 100mm * 14mm with RFID logo (set of 2 pieces)
Uniqueness	
- Single barcodes:	only one existing number per piece
- Double barcodes:	only one existing number per set of 2 pieces

Colours

- Single barcodes:

black on yellow background (Pantone Ref.: 103)

- Double barcodes:

black on orange (Pantone Ref.: 1225) and red (Pantone Ref.: 1805) backgrounds

Code Interleave

- Interleaved 2 of 5

- 8 or 10 digits

First Digit


- First digit dedicated to Manufacturer brand:

Michelin	0
SESS Tyres	0
Avon Coopertire	1
MRF	1
Hoosier	1
Falken	2
Silverstone	3
Maxsport	3
Toyo	4
Pirelli	5
Yokohama	6
DMack	7
Kuhmo	7
Dunlop	7
Goodyear	7
Bridgestone	8
GITI	8
Extreme Tyres	9
Hankook	9

**Liste des fournisseurs de code barres
en Championnat d'Europe FIA des Rallyes Sportifs Historiques
*List of suppliers for barcodes
in the FIA European Historic Sporting Rally Championship***

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**Spécifications requises pour les code barres
en Championnat d'Europe FIA des Rallyes Sportifs Historiques
*Required specifications for the barcodes
in the FIA European Historic Sporting Rally Championship***

Type	
- Single barcodes:	
Material	
- Rubber compound	
- To be used after vulcanisation	
Size	
- Single barcodes:	different sizes
Uniqueness	
- Single barcodes:	only one existing number per piece
Colours	
- Single barcodes:	black on yellow background
Code	
- Interleaved 2 of 5 or Code 128	
- 5 digits	

**Spécifications requises pour les code barres pour pneumatiques
en Championnat FIA Formule E**
*Required specifications for the tyre barcodes
in the FIA Formula E Championship*

Type	
- Single barcodes:	
Material	
- Rubber compound	
- To be used before vulcanisation	
Size	
- Single barcodes:	different sizes
Uniqueness	
- Single barcodes:	only one existing number per piece
Colours	
- Single barcodes:	black on yellow background
Code	
- Code 39 or Code 128	
- 8 digits	

Liste des fournisseurs de puces RFID pour tous les championnats FIA
List of suppliers for RFID chips for all FIA Championships

Chip Manufacturer	Alien		Impinj		UCODE
Model Name	Higgs - 3	Higgs - 9	Monza 4	Monza R6P	7xm-1K
RFID Protocol	Compatible with EPC C1G2 (ISO18000-6C) / UHF				
Frequency Range	860 ~ 960MHz				
EPC (UII) Memory - Lockable	96 bits	496 bits	96 bits – locked (coding with SGTIN96 standard)	128 bits	448 bits
TID Memory - Locked	192 bits	48 bits	32 bits - locked	128 bits	96 bits
USER memory	512 bits	688 bits	512 bits	64 bits	1024 bits