

**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


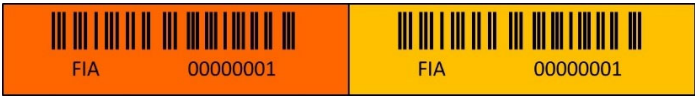
**Liste des fournisseurs de code barres pour tous les championnats FIA
exceptés le Championnats Formula E et
le Championnat d'Europe FIA des Rallyes Sportifs Historiques**

***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
- Double barcodes:	84mm * 14mm (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																												
- Double barcodes:	black on orange and red backgrounds																												
Code Interleave																													
- Interleaved 2 of 5																													
- 8 or 10 digits																													
First Digit																													
- First digit dedicated to Manufacturer brand:																													
	<table border="1"> <tbody> <tr> <td>Michelin</td> <td>0</td> </tr> <tr> <td>Avon Coopertire</td> <td>1</td> </tr> <tr> <td>MRF</td> <td>1</td> </tr> <tr> <td>Falken</td> <td>2</td> </tr> <tr> <td>Dunlop/Goodyear</td> <td>2</td> </tr> <tr> <td>Silverstone</td> <td>3</td> </tr> <tr> <td>Maxsport</td> <td>3</td> </tr> <tr> <td>Toyo</td> <td>4</td> </tr> <tr> <td>Pirelli</td> <td>5</td> </tr> <tr> <td>Yokohama</td> <td>6</td> </tr> <tr> <td>DMack</td> <td>7</td> </tr> <tr> <td>Kuhmo</td> <td>7</td> </tr> <tr> <td>GITI</td> <td>8</td> </tr> <tr> <td>Hankook</td> <td>9</td> </tr> </tbody> </table>	Michelin	0	Avon Coopertire	1	MRF	1	Falken	2	Dunlop/Goodyear	2	Silverstone	3	Maxsport	3	Toyo	4	Pirelli	5	Yokohama	6	DMack	7	Kuhmo	7	GITI	8	Hankook	9
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**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 tags for all FIA Championships

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