



## **Tyre Markings: Purpose and Function**

- **Information to users to select the right tyres.**
  - **Information on tyre quality**
- plus**
- **Traceability of products in the market for recall purpose**

## **Current Tyre Markings by various tyre regulations**

**Refer to Attachment 1**



# Attachment 1: Current Marking Requirements by various Regulations (as of Jan 2007)

Category	LABELING ITEMS			LABELING Examples	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS	REGULATIONS
					GTS2000	JAPAN	EUROPE / EU	U.S.A.	CANADA	CHINA	INDIA	AUSTRALIA	Middle East	BRAZIL
Production	Manufacture	1	MAKER	例 : BRIDGESTONE	Yes	Tech Std Yes	ECE N	FMVSS Yes	CMTSS Yes	CCC Yes	AIS Yes	ADR Yes	GS (Yes: SASO) N	INMETRO Yes
Production	Manufacture	2	TRADE NAME OR MARK	TURANZA	Yes	Yes	Yes	N	N	Yes	Yes	N	N (Yes: SASO)	N
Production	Manufacture	3	COUNTRY OF ORIGIN	MADE IN JAPAN	N	N	N	Yes	N	N	N	N	Yes	N
Production	Tyre ID No.	4	MFR. & PLANT CODE NO.	EM	N	N	N	FMVSR-PART574 Yes	Yes	N	Yes	N	N	N
Production	Tyre ID No.	5	SIZE CODE NO.	UP	N	N	N	FMVSR-PART574 Yes	Yes	N	N	N	N	N
Production	Tyre ID No.	6	OP CODE NO.	JAF	N	N	N	FMVSR-PART574 Yes	Yes	N	N	N	N	N
Production	Tyre ID No.	7	DATE CODE	(EMUP JAF) 3400	Yes	Yes	Yes	FMVSR-PART574 Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions	Tyre Size	8	TIRE SIZE DESIGNATION	245/45R18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tyre Construction & Service Description	Service Description	9	SPEED CATEGORY	96W	Yes	N	Yes	JATMA-Yes TRAETRTO-N	JATMA-Yes TRAETRTO-N	Yes	Yes	Yes	Yes	Yes
Tyre Construction & Service Description	Service Description	10	LOAD INDEX	96W	Yes	N	Yes	JATMA-ETRTO-Yes TRAN	JATMA-ETRTO-Yes TRAN	N	Yes	Yes or Max. Load	Yes	Yes
Tyre Construction & Service Description	Service Description	11	Tread Wear Indicator Position	A	N	N	N	N	N	Yes	Yes	N	N	N
Tyre Construction & Service Description	Construction	12	The word "TUBELESS"	TUBELESS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N	Yes
Tyre Construction & Service Description	Construction	13	The word "TUBETYPE"	TUBETYPE	N	N	N	Yes	Yes	N	N	N	N	N
Tyre Construction & Service Description	Construction	14	The word "RADIAL"	RADIAL	Yes	Yes (opt)	Yes (option)	Yes	Yes	Yes	Yes	Yes	N	Yes
Tyre Construction & Service Description	Construction	15	R for Radial construction	245/45R18	N	Yes	Yes	N	N	N	Yes	Yes	Yes	N
Tyre Construction & Service Description	Construction	16	None or D for Diagonal	None or "D"	N	Yes	Yes	N	N	Yes	N	Yes (option)	Yes	Yes
Tyre Construction & Service Description	Construction	17	B and the word "BELTED BIAS"	"B" and BIAS-BELTED	Yes	Yes	Yes	N	N	Yes	N	Yes	Yes	N
Tyre Construction & Service Description	Service Description	18	REINFORCED or EXTRA LOAD	REINFORCED	Yes	N	Yes	N	N	N	N	N	N	Yes
Tyre Construction & Service Description	Service Description	19	MAX. LOAD	710KG (1564LBS)	N	N	N	Yes	Yes	Yes	N	Yes or Load index	N	N
Tyre Construction & Service Description	Service Description	20	MAX. Inflation Pressure	240KPa (35PSI)	N	N	N	Yes	Yes	Yes	Yes	N	N	N
Tyre Construction & Service Description	Construction	21	Ply cord materials, Actual ply numbers	SIDEWALL: POLYESTER 2 TREAD: STELL 2, POLYESTER 2	N	N	N	Yes	Yes	Yes	N	N	N	Yes
Tyre Construction & Service Description	Service Description	22	Outside marking for asymmetrical tyres	OUTSIDE	N	N	N	N	N	N	N	Yes	N	N
Tyre Construction & Service Description	Construction	23	The word "RUNFLAT"	RUNFLAT	N	Yes	N	N	N	N	N	N	N	N
Tyre Construction & Service Description	Construction	24	Runflat marking / snail marking	245/45R18 and Snail marking	N	Yes	Yes	N	N	N	N	N	N	N
Tyre Construction & Service Description	Construction	25	The word "SNOW"	SNOW	N	N	N	N	N	N	N	N	N	N
Tyre Construction & Service Description	Construction	26	Snow tyre marking M+S, M&S, M/S.	M+S	Yes	Yes	Yes	N	N	N	Yes	N	N	Yes
Tyre Construction & Service Description	Construction	27	Snow tyre marking	Alpine symbol	N	N	N	Yes	N	N	N	N	N	N
Tyre Construction & Service Description	Service Description	28	ULTRA LIGHT TRUCK	ULTRA LIGHT TRUCK or Code	N	N	N	N	N	N	N	N	N	N
Tyre Construction & Service Description	Service Description	29	LIGHT TRUCK	LIGHT TRUCK or Code	N	N	N	N	N	N	N	N	N	N
Tyre Construction & Service Description	Service Description	30	TEMPORARY USE SPARE TYRES	TEMPORARY USE ONLY	N	Yes	Yes	N	N	N	N	N	N	Yes
Tyre Construction & Service Description	Service Description	31	TEMPORARY USE SPARE TYRES	INFLATE TO 420KPa (60PSI)	Yes	Yes	Yes	Yes	Yes	N	N	N	N	Yes
Certification	Approval Marking	32	E MARK	E4 0212262	Yes	N	Yes	N	N	N	N	N	N	N
Certification	Approval Marking	33	EU TYRE NOISE EMISSION MARK	e4 0225196-S	Yes	N	Yes EEC 2001/43/EC	N	N	N	N	N	N	N
Certification	Approval Marking	34	DOT MARK	DOT	Yes	N	N	Yes FMVSR-PART574	N	N	N	N	N	N
Certification	Approval Marking	35	CCC MARK	CCC A008294	Yes	N	N	N	N	Yes	N	N	N	N
Certification	Approval Marking	36	I MARK	I 008	Yes	N	N	N	N	N	N	N	N	Yes
Certification	Approval Marking	37	SNI MARK	SNI	Yes	N	N	N	N	N	N	N	N	N
Certification	Approval Marking	38	UTQG TREAD WEAR GRADE TREADWEAR	TREAD WEAR 300	N	N	N	Yes UTQGS-PART575	N	N	N	N	N (Yes: SASO)	N
Certification	Approval Marking	39	UTQG TRACTION GRADE TRACTION	TRACTION A	N	N	N	Yes UTQGS-PART575	N	N	N	N	N (Yes: SASO)	N
Certification	Approval Marking	40	UTQUG TEMPERATURE GRADE TEMPERATURE	TEMPERATURE A	N	N	N	Yes UTQGS-PART575	N	N	N	N	Yes	N
Warning	PL	41	Safety Warning		N	N	N	N	N	N	N	N	N	N
Warning	PL	42	Safety Warning (for RUNFLAT)		N	N	N	N	N	N	N	N	N	N

Yes : Regulation Requirement N : No Marking Requirement

## Attachment 2: Tyre Markings: Current requirements for tyre sidewalls

Blue: Depend on Mfg

Red: GTS2000

Dimensions

### Tyre size designation

- Section width、Aspect ratio、 ( Const. code ) 、 Nominal rim dia.、

Service Description

### Speed category、 Load index

Position for tread wear indicators

**Tubeless**, Tube type,

**“Radial”**, Radial (R), **“Bias-Belted”**,

Bias-Belted (B), Diagonal (D) or none,

**Reinforced or Extra Load**,

Max. Load, Max. Press.

Cord materials、 Actual number of plies、 **“Rayon”(For Bias or Bias Belted)**

Asymmetrical tyres (OUTSIDE),

Manufacturer, Country of production, Trade name or mark,

ID codes : Plant code, Size code, OP code, Date of Manufacture

**Approval mark, Approval number**,

Inspection marking,

Performance grade ( UTQGS、 GSO )

Safety warning, RF tyre warning

RUNFLAT、 RF marking ( Snail mark)、

SNOW, **M+S**,

TEMPORARY USE ONLY、

**INFLATE TO 420kPa (60psi)**,

Rim size,

Service code

Ply rating

Production

Certification

Warning / PL

For study

Font、 **Height**, Depth

Marking position

Languages ( English or mother tongue )

# How to approach the goal

## 1998 Contracting Parties :

- Japan
- EU countries
- U.S.A.
- Canada
- China
- India

Other 22 countries are also 1958 C/P.

## Other areas :

- Middle East
- South America
- Caribbean Area
- Asia

Plus

*For further study; Proposal*



GTS2000  
Requirements

+

UN/ECE  
Requirements

+

FMVSS  
Requirements



***Tyre GTR Mark ?***



## Markings for tyre GTR

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### 1<sup>st</sup> Step : Approach: (Target: End of April 2007)

Review current marking requirements in various regulations

- Regulations of 98 C/P
- Regulations on other countries, such as Middle East area and South America
- GTS 2000 requirements

Categorizing and grouping marking requirements and items

- FMVSS group
- ECE group
- Special marking requirements

**Comments and Opinions:**

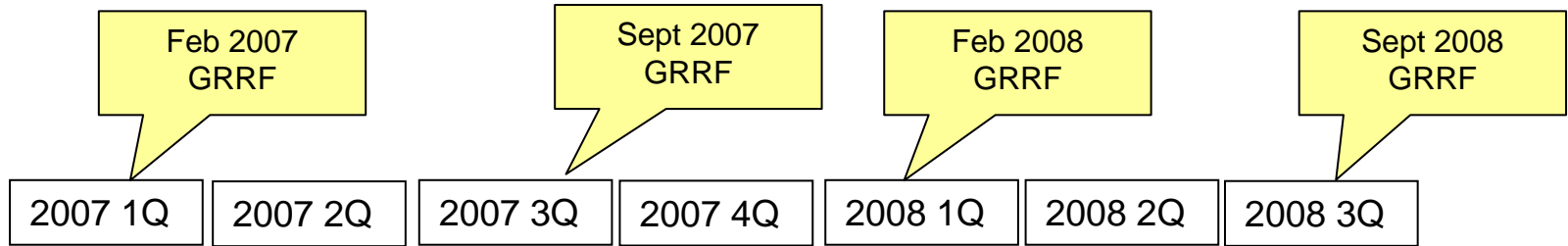
**By End of May 2007**

### 2<sup>nd</sup> Step : Study draft proposal (Target: End of August 2007)

- Review each marking item for requirement
- Construct marking requirements, with reasons for adoption

### 3<sup>rd</sup> Step : Finalize draft proposal (Target: End of November 2007)

### 4<sup>th</sup> Step : Submit final proposal (Target: End of July 2008)



Step 1: 

Step 2: 

Step 3: 

Step 4:



Submit draft proposal  
for GRRF informal WG  
for tyre GTR



Submit final proposal for  
GRRF informal WG for  
tyre GTR