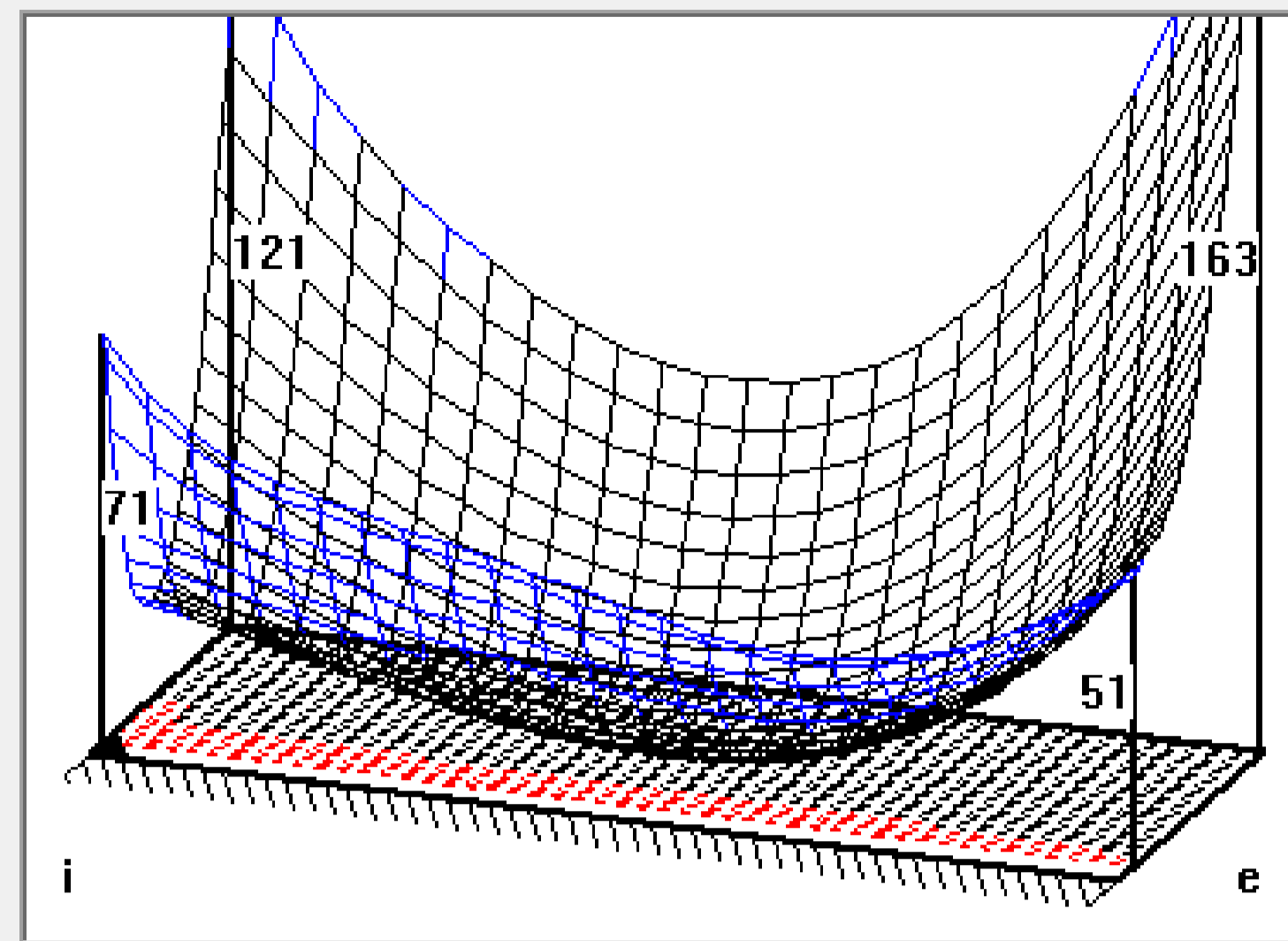


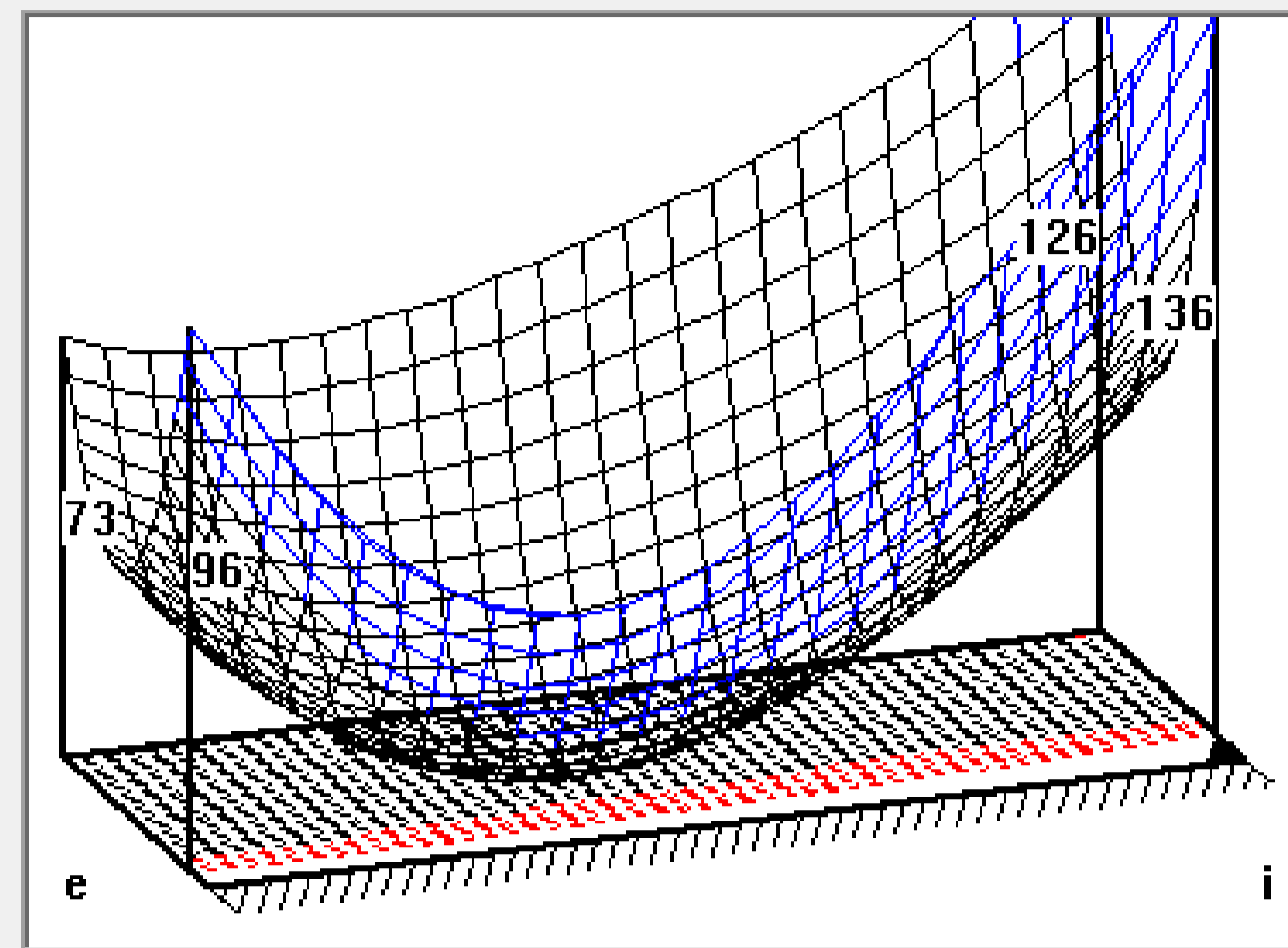
# EASE - OFF

Drive (Optimization of Concave Pinion Flank)



db	Spiral Angle Diff. [Deg.]	-0.0243
d α	Pressure Angle Diff. [Deg.]	-0.2473
LB	Lengthwise Crowning [μm]	54.6
HB	Profile Crowning [μm]	41.3
dv	Longitudinal Twist [Deg.]	-0.2508

Coast (Optimization of Convex Pinion Flank)



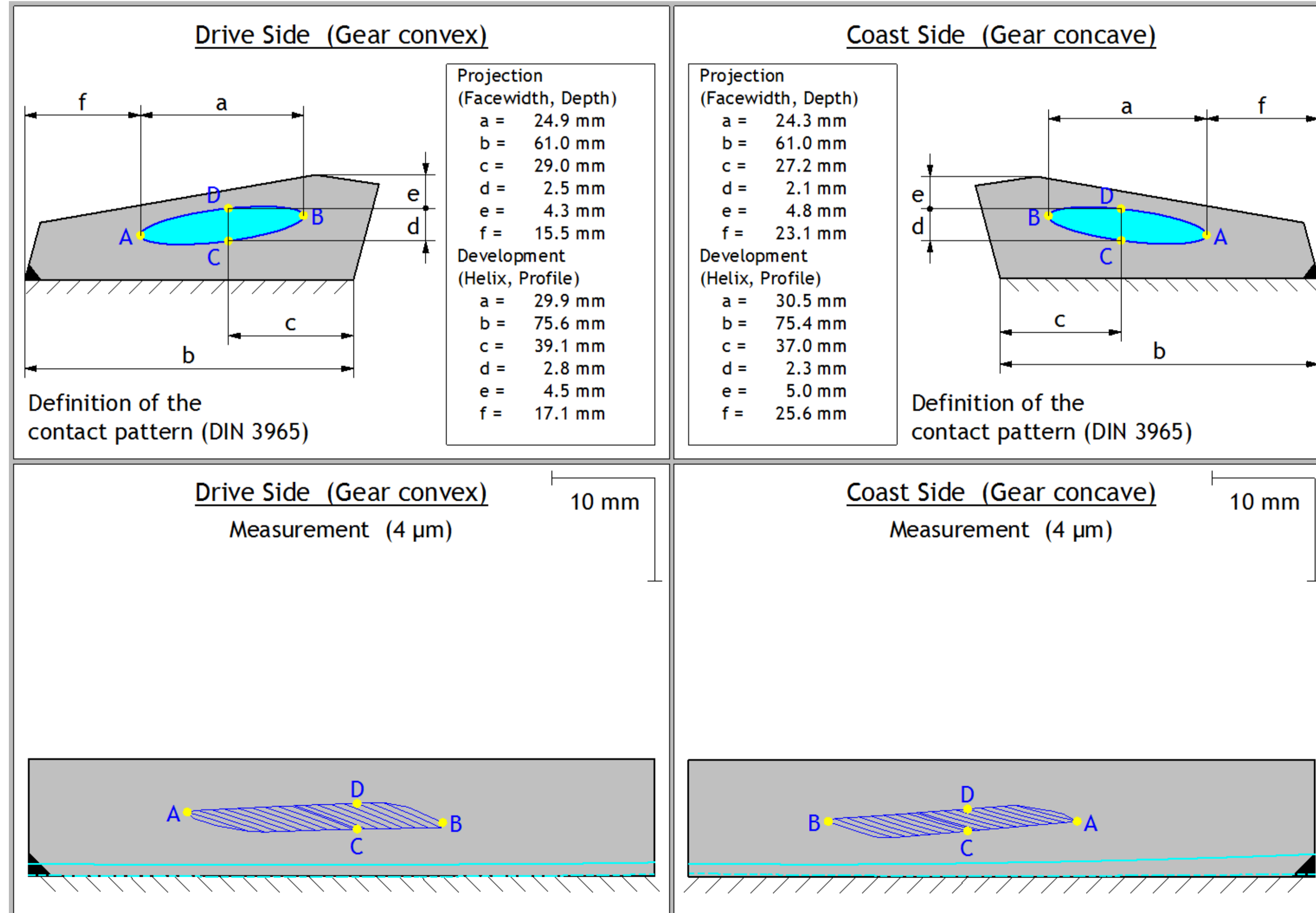
db	Spiral Angle Diff. [Deg.]	-0.0219
d α	Pressure Angle Diff. [Deg.]	-0.1013
LB	Lengthwise Crowning [μm]	40.5
HB	Profile Crowning [μm]	56.4
dv	Longitudinal Twist [Deg.]	0.1554

# GRINDING

KLINGELNBERG HYPOID - GEAR GRINDING			
Axis angle	Sigma	°	90
Offset (center distance)	a	mm	+30
Hand of gear	Left		
Number of teeth	z		49
Theoretical facewidth	b	mm	61
Reference diameter Middle	d <sub>m</sub>	mm	301.045
Reference diameter Outside	d <sub>e</sub>	mm	360.0017
Normal module in the middle	m <sub>mn</sub>	mm	5.0327
Helix angle in the middle	bet <sub>m</sub>	°	35
Cone angle	delta	°	75.1267
Medium normal pressure angle	alfa	°	20
Angle modification	thek	°	0
Tooth height	H	mm	11.3236
Addendum Reference profile	h <sub>ap</sub>	module	1
Dedendum Reference profile	h <sub>fp</sub>	module	1.25
Root radius factor	rho <sub>rp</sub>	module	0.3
Profile shift coefficient	x <sub>hm</sub>		-0.45
Tooth thickness modification factor	x <sub>s<sub>mn</sub></sub>		-0.006
Length of reference cone outside	R <sub>e</sub>	mm	186.24
Length of reference cone middle	R <sub>m</sub>	mm	155.7407
Length of reference cone inside	R <sub>i</sub>	mm	125.24
Tooth quality	6 as per DIN 3965		
Machining process	GRINDING		
TOOL			
Cutter radius	R	mm	100
Cutter module	m <sub>0</sub>	mm	5
Number of cutter blade groups	z <sub>0</sub>		5
BACKLASH			
Mean Transverse Backlash	j <sub>mt</sub>	mm	0.2255
Outer Normal Backlash (Tip)	j <sub>ne</sub>	mm	0.1670

Case GRINDING mark: GroupA1/GroupA2/GroupB1/GroupB2/GroupB3/SC  
 Caso RECTIFICADO marcar: GrupoA1/GrupoA2/GrupoB1/GrupoB2/GrupoB3/SC

# CONTACT PATTERN ANALYSIS



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Unless otherwise specified:  
 -Deburr all sharp edges with 0.3-0.5 x 45°  
 -General roughness Ra=b.3  
 Unless otherwise specified, tolerances according to ISO 2768 -mK

01	ENGRANAJE CONICO	1	18CrNiMo7-6 EN 10084	4	17.90
MARCA	DESCRIPCION	CANT.	CODIFICACION O NORMA	MATERIAL O REFERENCIA	PESO UNITARIO
			Nº DIBUJO O CALIDAD MATERIAL:		NOTAS Y OBSERVACIONES
MODIFICACIONES					
COMPR	FECHA	NOMBRES			
VERIFIC	PLANO N°				
NOVOL	SUSTITUYE A:				
FOL. GEN	ESCALA	DESIGNACION:			EDICION
1/1	ENGRANAJE CONICO			HOJA N°	2
				Nº DE HOJAS	2
FECHA	NOMBRES	ENTIDAD:	CAF		
DIBUJO	09-01-08	MP	REFERENCIA:	X.44.01640	
VERIFIC	09-01-08	10535			
SUSTITUYE A:					
EDICION					