



TECHNICAL DATA SHEET (TDS)

1. IDENTIFICATION OF THE SUBSTANCE AND MANUFACTURER.

Product trade-name:	NECALFLEX
Product code:	
Manufacturer:	P. I. Erkimia Avenida de Explosivos s/n 34880 - Guardo (Palencia)

2. DESCRIPTION OF PRODUCT.

Rubber powder recovered from end of life of tyres by mechanical milling on ambient atmosphere.

COMPOSITION /COMPONENT	DESCRIPTION
Vulcanized rubber (%)	
Metal content (%)	< 0,10 % for rubber sizes bigger than 0,80 mm. < 0,01 % for rubber sizes equal or smaller than 0,80 mm.
Textil fiber content (%)	< 0,05
Other materials content (%)	< 0,05

3. APPLICATIONS.

Multi sports shock pads.
Safety surfacing and impact absorbering layers.
Casting products.
Modified bitumen for road construction.
Rubber compound.
Plastic compound.
Paint.

RENECAL - RECICLADO DE NEUMATICOS DE CASTILLA Y LEON, S.L.

Polígono Industrial de Erkimia, Avenida de Explosivos s/n - 34880 Guardo (Palencia)

T + 34 979 853 309 / 979 853 330 F + 34 979 852 218 E guardo@renecal.com I <http://www.renecal.com>

4. PHYSICAL AND CHEMICAL PROPERTIES.

PHYSICAL PROPERTIES

Form	Solid, powder / crumb.
Colour	Black.
Odour	Rubber.
Bulk density (gr/cc)	0,40 - 0,50
Specific gravity	1,15 – 1,27
Humidity (%)	< 0,75
Combustion point (°C)	300 - 450

DESCRIPTION

CHEMICAL PROPERTIES

Acetone extractables content (%)	5,00 – 22,00
Ash content (%)	7,00 – 11,00
NR/SR ratio (%)	70/30 – 60/40
Carbon black (%)	26,00 – 38,00
Natural rubber content (%)	10,00 – 35,00
Rubber hydrocarbon content (%)	57,00 - 58,00
Sulphur content (%)	1,0 – 7,00
pH value(25°C)	8,12 – 8,20
Solubility	Insoluble in water, partially soluble in acetone.

DESCRIPTION

5. RANGE OF PRODUCTS.

COMMERCIAL NAME	SIZE (mm)	CLASIFICACION ACCORDING TO ASTM D 5603	CLASIFICACION ACCORDING TO CEDEX MANUAL
NECALFLEX PA 0006	0,0 – 0,6	Class 40 / Grade 1	P-3
NECALFLEX PA 0008	0,0 – 0,8	Class 30 / Grade 1	P-2
NECALFLEX GFPA 0625	0,6 – 2,5		
NECALFLEX GMA 2040	2,0 – 4,0		
NECALFLEX GMA 2070	2,0 – 7,0		

6. PACKAGING.

Big bags

- Dimensions 1.000 x 1.000 x 1.000 mm / 1,00 m³ ~ 600 kg.
- Dimensions 1.000 x 1.000 x 1.700 mm / 1,70 m³ ~ 900 kg.
- Dimensions 1.000 x 1.000 x 2.000 mm / 2,00 m³ ~ 1.200 kg.

Polythene bags (*)

10, 15, 20 o 25 kg.

Cistern truck (*)

(*) *By order*

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7. TRANSPORT, HANDLING AND STORAGE.

Transport:	Not hazardous according to Rn 3320 (2) GGVS. ADR (94/55/EC).
Handling:	No special precautions necessary.
Storage:	It should be according to ISO 2230. The storage accommodation should be cool, below 25° C, dry and moderately ventilated.

8. HUMAN HEALTH AND ENVIRONMENT EFFECTS

According to Spanish Law R.D. 952/97, R.D. 363/95, MMA/304/2002 and as result of analysis of specimen of rubber granules and powder tested and got from end of life of tyres, this material is considered: not explosive, not supporter of combustion, not orally toxic, not toxic or irritate on contact to the skin, not carcinogenic, not mutagenic, not emit toxic gases, not toxic for environment.

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