

Synthetic Rubber (SBR) Plant Elemir
HIP-Petrohemija d.o.o.

Identification number:
TUS-HIPP-1288

Date:
03.07.2024

SPECIFICATION OF THE INPUT MATERIAL
Fatty Acid

1. Product name/Chemical name:	Fatty Acid/ A mixture of fatty acids of fractions C ₁₀ to C ₁₈ of plant or animal origin.				
2. SAP code:	8111729				
3. Technical description:	The fatty acid is used for the preparation of emulsifiers used in cold emulsion copolymerization. With potassium hydroxide, it forms fatty acid soaps, paraffins, which are used as surface active substances. It has a significant impact on the quality of rubber. It is stored and used in liquid form at a temperature of 60-65 °C. CAS number: 67701-06-8				
4. Physical and chemical characteristics:	Item number	Characteristic	Method	Unit	Range of allowed values
	1.	Acid number	Internal method	mg KOH/g	202 – 208
	2.	Saponification number	Internal method	mg KOH/g	202 – 208
	3.	Iodine number	Internal method	gJ ₂ /100g	40 – 45
	4.	Melting point	Internal method	°C	42 – 48
	5.	Iodine number of the original coloration	Internal method	mgJ ₂ /100ml	Max. 7
	6.	Iodine number of the coloration after 15h/100°C	Internal method	mgJ ₂ /100ml	Max. 15.0
	7.	Moisture	ASTM E 203	Wt. %	Max. 0.5
	8.	Mn content	*	Weight ppm	Max. 1.0

	9.	Cu content	*	Weight ppm	Max. 1.0
	10.	Iron content	*	Weight ppm	Max. 10
	11.	Unsaponified matter content	*	Wt. %	Max. 1.5
	12.	Polyunsaturated acid content	*	Wt. %	Max. 0.8
	13.	Appearance	Visual	-	Viscous paste
	*testing shall be performed upon request outside the FSK				
	Gas-chromatographic composition				
	Item number	Exploration	Unit	Ca	
	1.	Lauric, C -12	Wt. %	1.0	
	2.	Myristic, C -14	Wt. %	4.0	
	3.	Pentadecane, C -15	Wt. %	0.5	
	4.	Palmitic, C -16	Wt. %	26.0	
	5.	Hexadecene, C-16=1	Wt. %	3.0	
6.	Margarine, C -17	Wt. %	1.0		
7.	Stearic, C-18	Wt. %	27		
8.	Octadecene, C-18=1	Wt. %	37.5		
9.	Octadicadiene, C-18=2	Wt. %	2.0		
10.	Octadecatriene, C-18=3	Wt. %	<0.5		
11.	Greater than C-22	Wt. %	Traces		
5. Technical/accompanying documentation:	The Supplier is obliged to submit: - Safety data sheet, in Serbian - Test report - Data sheet on safety measures - Delivery note				
6. HSE requirements:	-				
7. Delivery and labelling:	The chemical is delivered in the form of a viscous paste, in tank trucks with a heating snake (60-65°C). Each package unit must have a list with the following information: - Date				

	<ul style="list-style-type: none"> - Product name - Data on the manufacturer (company) - Lot/batch number - Net mass of the package unit - Production date - Usage date
8. Transport:	Transport by cars
9. Product eligibility criteria:	<p>Quality compliance with the requirements - The product is in compliance with the specified requirements if it meets the allowed tolerances in all aspects or all the requirements given in this specification and if it successfully passes the industrial test.</p> <p>Uniformity of delivery quality - Delivery of the input material should correspond to the approved sample for procurement. The sample is tested according to the Control and testing plan of input raw materials and chemicals in the SBR Plant. The manufacturer must submit information on changes in its process of production and place of production, as well as samples of products produced under new conditions. After examining the documentation, testing the sample and obtaining a positive outcome of the industrial trial, the SBR Plant gives its consent for the application and delivery of the input material.</p> <p>Delivery acceptance criterion - The criterion is met if the quality and quantity in relation to the accompanying documentation as well as the requirements in all aspects of this specification are confirmed by the input control.</p>