

Requirer: ANIGER PARTICIPACOES SOCIETARIAS E ASSESSORIA LTDA

Address: Rua Armindo Eltz, 51– Campo Bom - RS.

Date of receipt of sample: 03/08/2022.

Sample characterization: 01 sample of material, identified by the customer as: "PIGMENTO DIÓXIDO DE TITÂNIO R103 + PIGMENTO 9256 VERMELHO + PIGMENTO VERMELHO 9262".

Selection of samples: up to the requirer.

Sampling: up to the laboratory.



TEST	RESULTS				
	Results	MLQ	Unit	Method	Evaluation
1 – Alkylphenols (NP/OP)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
2 – Ethoxylates alkylphenols (NPEO/OPEO)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
3 – Total Lead	22.9	3.5	mg/kg	CPSC-CH-E1002-08.3 (2012)	Pass
4 – Total Arsenic	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
5 – Total Mercury	<0.10	0.10	mg/kg	BS EN 16711-1:2015	Pass
6 – Total Cadmium	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
7 – Polyaromatic Hydrocarbons –PAHs	<0.20	0.20	mg/kg	AFPS-GS-2019-01-PAK	Pass
8 – Organotin Compounds	<0.10	0.10	mg/kg	ABNT ISO/TS 16179:2017	Pass
9 – Bisfenol A (BPA)	<1.0	1.0	mg/kg	Método AFIRM -Bisfenol A (BPA)	Pass
10 – Phtalates	<50.0	50.0	mg/kg	CPSC-CHC1001-09.4 (2018)	Pass

Note 1: Evaluation according to Veja Limits – Maximum Allowed Limits according VEJA Restricted Substances Policy – September/2021.

Note 2: mg/kg = ppm

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Results by Compounds:

Alkylphenols (AP), Alkylphenol Ethoxylates (APEOs) including all isomers	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Nonylphenol (NP), mixed isomers	Several	<10.0	Total: 100 ppm	10.0 ppm (each)
Octylphenol (OP), mixed isomers	Several	<10.0		
Nonylphenol Ethoxylates (NPEOs)	Several	<10.0	Total: 100 ppm	
Octylphenol Ethoxylates (OPEOs)	Several	<10.0		

Bisphenols	CAS Number	Result	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Bisphenol-A (BPA)	80-05-7	<1.0	1 ppm	1.0 ppm

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Heavy Metals	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Arsenic (As)	7440-38-2	<3.5	Extracted: 0,1 ppm Total: 10 ppm	Extracted: 0.05 ppm Total: 3.5 ppm Leather: 2.0 ppm
Cadmium (Cd)	7440-43-9	<3.5	Extracted: 0.1 ppm Total: 40 ppm	Extracted: 0.05 ppm Total: 3.5 ppm Leather: 2.0 ppm
Lead (Pb)	7439-92-1	22.9	Extracted: 0.2 ppm Total: 90 ppm	Extracted: 0.05 ppm Total: 3.5 ppm Leather: 2.0 ppm
Mercury (Hg)	7439-97-6	<0.10	Extracted: 0.02 ppm Total: 0.5 ppm	Extracted: 0.005 ppm Total: 0.10 ppm

Organotin Compounds	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Dibutyltin (DBT)	Several	<0.10	1 ppm (each)	0.10 ppm
Dioctyltin (DOT)	Several	<0.10		
Monobutyltin (MBT)	Several	<0.10		
Tricyclohexyltin (TCyHT)	Several	<0.10		
Trimethyltin (TMT)	Several	<0.10		
Trioctyltin (TOT)	Several	<0.10		
Tripropyltin (TPT)	Several	<0.10		
Triphenyltin (TPhT)	Several	<0.10	0.5 ppm	
Tributyltin (TBT)	Several	<0.10	0.1 ppm	

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Polycyclic Aromatic Hydrocarbons (PAHs)	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Acenaphthene	83-32-9	<0.20	No individual restriction	0.20 ppm
Acenaphthylene	208-96-8	<0.20		
Anthracene	120-12-7	<0.20		
Benzo(g,h,i)perylene	191-24-2	<0.20		
Fluorene	86-73-7	<0.20		
Fluoranthene	206-44-0	<0.20		
Indeno(1,2,3-cd) pyrene	193-39-5	<0.20		
Naphthalene	91-20-3	<0.20		
Phenanthrene	85-01-8	<0.20		
Pyrene	129-00-0	<0.20		
Benzo(a)anthracene	56-55-3	<0.20	0.5 ppm (each)	0.20 ppm
Benzo(a)pyrene	50-32-8	<0.20		
Benzo(b)fluoranthene	205-99-2	<0.20		
Benzo[e]pyrene	192-97-2	<0.20		
Benzo[j]fluoranthene	205-82-3	<0.20		
Benzo(k)fluoranthene	207-08-9	<0.20		
Chrysene	218-01-9	<0.20		
Dibenzo(a,h)anthracene	53-70-3	<0.20		

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Phthalates	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Di-isonylphthalate (DINP)	28553-12-0	<50.0	Total: 1000 ppm 500 ppm (each)	50.0 ppm (each)
Di-n-octylphthalate (DNOP)	117-84-0	<50.0		
Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	<50.0		
Diisodecylphthalate (DIDP)	26761-40-0	<50.0		
Butylbenzylphthalate (BBP)	85-68-7	<50.0		
Dibutylphthalate (DBP)	84-74-2	<50.0		
Diisobutylphthalate (DIBP)	84-69-5	<50.0		
Di-n-hexylphthalate (DnHP)	84-75-3	<50.0		
Diethylphthalate (DEP)	84-66-2	<50.0		
Dimethylphthalate (DMP)	131-11-3	<50.0		
Di-n-pentyl phthalate (DPENP)	131-18-0	<50.0		
Dicyclohexyl phthalate (DCHP)	84-61-7	<50.0		
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	<50.0		
Bis(2-methoxyethyl) phthalate	117-82-8	<50.0		
Diisopentyl phthalate (DIPP)	605-50-5	<50.0		
Dipropyl phthalate (DPRP)	131-16-8	<50.0		
Diisooctyl phthalate (DIOP)	27554-26-3	<50.0		
Diisoexyl phthalate (DIHxP)	71850-09-4	<50.0		
Di-hexyl phthalate, branched and linear (DHxP)	68515-50-4	<50.0		
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	<50.0		
1,2-Benzenedicarboxylic acid	84777-06-0	<50.0		
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68648-93-1 68515-51-5	<50.0		
n-Pentyl-isopentylphthalate (nPIPP)	776297-69-9	<50.0		

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EXAMINATION PERFORMED: 03/08/2022 to 03/24/2022.

TRACKING EQUIPMENT USED FOR TEST:

- NI 102 Balance, with calibration certificate RBC 006060/2021 emitted by INSTITUTO SENAI DE INOVAÇÃO EM METALMECÂNICA-CETEMP and valid until 05/2023.

Estância Velha, March 28th, 2022

Technical Analyst
Lucas Zoldan
CRQ 05202050

Revision 02
BRC

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