




# CERTIFICATE OF ANALYSIS

EP MINERALS, LLC  
  
 Lillie Lightsey  
 International Department

**Ship To:** AP MINERAL KIMYA ITH. IHR. TIC VE PAZ  
 A.S.  
 ADANA HACI SABANCI ORGANIZE  
 SANAYI BOELGESI, AOSB SEHIT OEMER  
 HALISDEMIR CAD NO 30 01410  
 Turkey

**Sold To:** AP MINERAL KIMYA ITH. IHR. TIC VE PAZ  
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**PO Number:** AP512  
**Order Number:** 1548929

**Equipment Number:** 1H01C23 - CAAU5609637 ; 1L100C23 - CAAU5609637 ; 1M30D23 - MSDU8572044 ; 1M30E23 - N/A, CAIU7737310  
**Seal No:** 1H01C23 - 030535 ; 1L100C23 - 030535 ; 1M30D23 - N/A, 031051 ; 1M30E23 - N/A, 031039

**Customer Part Number/Description:** FP3 EUROPEAN BREWERY SPEC D.E. 905  
**Shipped Order Qty:** 2574.000  
**UOM:** 22.68 KG

Lot/Batch No	Lot Qty	MFG. Date	Test Name	Result	Units	Spec Min	Spec Max	Test Method
1H01C23	585	8/22/2023	PERMEABILITY	192	mdarcies	140	280	LAB W/ 297
			WBD	23	lbs/ft <sup>3</sup>	12	28	LAB W/ 120/297
				368.424649	kg/m <sup>3</sup>			
			+ 150. PERCENT	4.4	%	0.0	7.0	LAB W/ 330/360
			+ 28. PERCENT	<0.1	%	0.0	0.5	LAB W/ 340
			+ 14. PCS	0	Pieces	0	5	LAB W/ 340
			PH - EP	6.6	*	5.0	8.0	LAB W/ 300
			LOI - USFCC	0.00	%	0.00	0.50	LAB W/ 134
			MOISTURE USFCC	0.09	%	0.00	1.00	LAB W/ 134
			ALUMINUM - EBC	90	ppm	40	180	LAB W/ 016
			ARSENIC - EBC	1.7	ppm As	1.7	9.0	LAB W/ 018
			CALCIUM - EBC	173	ppm	40	500	LAB W/ 016
			IRON - EBC	58.00	ppm	40.00	80.00	LAB W/ 016
1L100C23	273	11/16/2023	PERMEABILITY	252	mdarcies	140	280	LAB W/ 297

Phone 800-2283865, Fax 8247577, 150 COAL CANYON ROAD, LOVELOCK, NV 89419, U.S., www.epminerals.com  
 Please check all quality values on this certificate of analysis carefully and promptly notify EP Minerals of any discrepancies at 800-228-3865. Product has no expiration date.