Constellium Technology Center (C-TEC), France

Constellium Aheadd[®] : Aluminium Alloys Designed for Laser Powder Bed AM to Improve Properties and Processing Performance



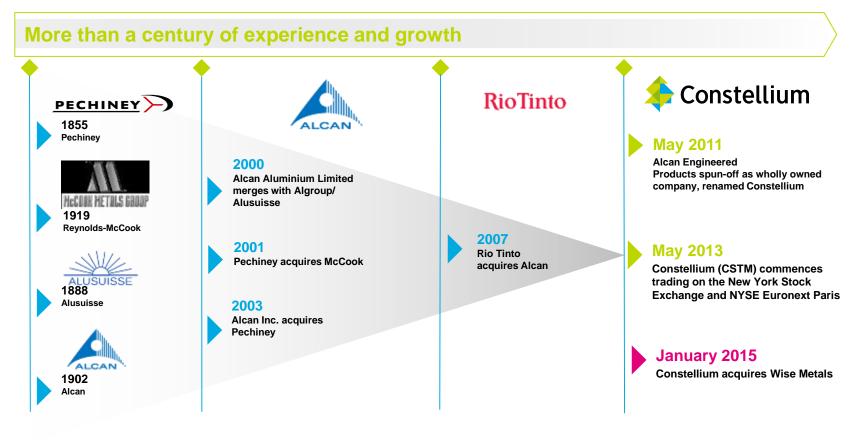
Syam UNNIKRISHNAN

Business Development Manager Additive manufacturing



Constellium – a world leader in aluminium

Constellium is a world leader in the aluminum industry, supplying a full range of value added products, with strong customer relationships and a history of innovation





Constellium at a glance



Our Facilities Worldwide



A global leader developing and manufacturing innovative, high value-added aluminium products and solutions.

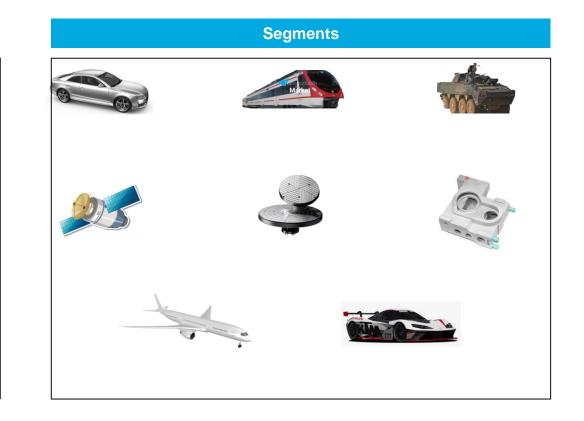


Constellium – Aheadd Products- Aheadd® CP1 (AI-Zr-Fe)

Alloy designed specifically for AM process (L-PBF)

USPs of Ahead CP1 alloy

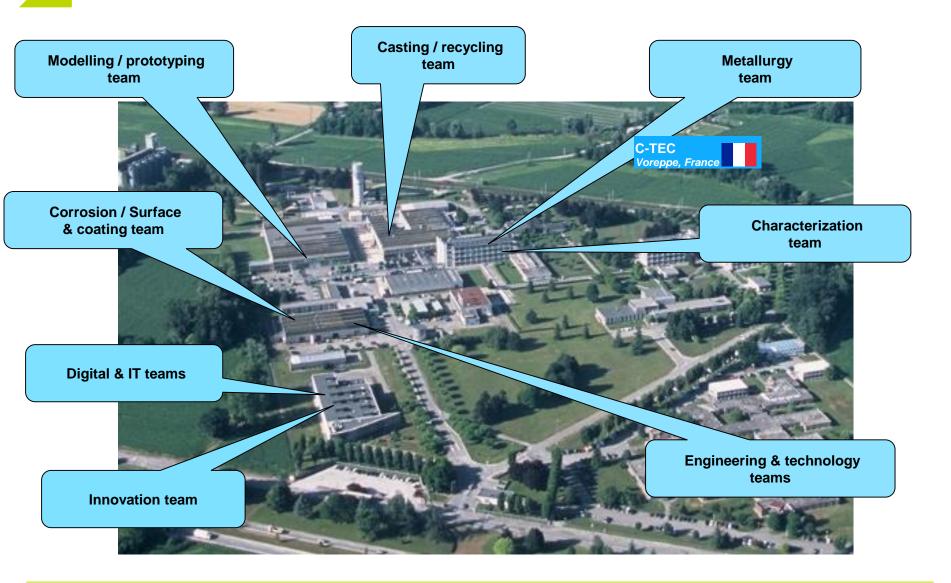
- High productivity
- Component Cost reduction
- Surface finish high quality anodization
- High conductivity
- No silicon in the material composition
 - High performing Hex & cooling applications



One alloy to cover many applications (60, 90, 100, 120, 150 µm layer thickness printing . Drop in replacement for AISi & 6061 application



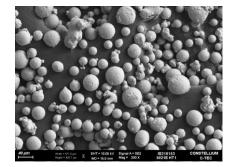
C-TEC France key teams & capabilities 230 employees mostly PhD, engineers & high skilled technicians





Constellium Aheadd[®]

Supply Chain and Quality



- · Process : Inert gas atomization
- Standard particle size distribution : 20-63µm
- · Custom PSDs available on request

Certifications :

- ISO-9001: 2015 quality certification
- ISO-14001: 2015 environmental certification
- ISO-45001: 2018 safety certification
- Cofrac 17025 for chemical analysis and mechanical tests



Certificat

N° 2017/73968.4

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AFNOR Certification certifie que le système de management mis en place par : AFNOR Certification certifies that the management system implemented by:

C-TEC CONSTELLIUM TECHNOLOGY CENTER

pour les activités suivantes : for the following activities:

RECHERCHE, DEVELOPPEMENT, ASSISTANCE TECHNIQUE ET REALISATION DE PRESTATIONS POUR LE COMPTE DES SOCIETES DU GROUPE ET DES CLIENTS EXTERNES. PRODUCTION ET VENTE D'ALLIAGES D'ALLUMINUM. RECHERCHE, DEVELOPPEMENT ET GESTION DE LA FABRICATION DE POUDRE D'ALLUMINUM

RESEARCH, DEVELOPMENT, TECHNICAL SUPPORT AND PROVISION OF SERVICE FOR THE GROUP'S COMPANIES AND FOR EXTERNAL CUSTOMERS. PRODUCTION AND SALE OF ALUMINUM ALLOYS. RESEARCH, DEVELOPMENT AND MANUFACTURING MANAGEMENT OF ALUMINUM POWDER.

> a été évalué et jugé conforme aux exigences requises par : has been assessed and found to meet the requirements of:

ISO 9001 : 2015 - ISO 14001 : 2015 - ISO 45001 : 2018

et est déployé sur les sites suivants : and is developed on the following locations:

725 rue Aristide Bergés Paro Economique Centr'Alp 38341 VOREPPE CEDEX France

Le détail des activités et sites certifiés par norme est mentionné sur les certificats suivants : The description of certified activities and locations per standard is mentioned on the following certificates:

> Certificat ISO 9001 : 2015 nº 73968 Certificat ISO 14001 : 2015 nº 73967 Certificat ISO 45001 : 2018 nº 73968

Certificats ISO 9001 et ISO 14001 délivrés sous accréditation nº 4-0001 Certificates ISO 9001 and ISO 14001 issued under accreditation n°4-0001

2021-03-15

Ce cettificat est valable à compter du (année/moi This certificate à valid from (vascimonifatieu) Jungs Inc.

2023-01-29

Directeur Général d'AFNOR Certification Managing Director of AFNOR Certification

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