



Ossida

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Ossida s.r.l. Via delle industrie, 11 - 30020 Fossalta di Piave  
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# ALUMINIUM

→ Aluminum is the most abundant metal on Earth and the 3rd most abundant element: we will never run out of it.





It's present in a combined state and processing it is complicated and expensive: at the end of the 19th century its value was the same of silver.

Amongst metal only magnesium is the lighter, but way more expensive and aluminum has the density of a third compared to steel. Excellent casting, extruding and forming properties, together with great heat transfer characteristics.

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Excellent casting, extruding and forming properties, together with great heat transfer characteristics. Aluminum is not afraid of corrosion and can be polished to a fully reflective grade, very useful in the lighting industry.

Aluminum is a truly sustainable material, as its **recycling cycle** is one of the most effective.

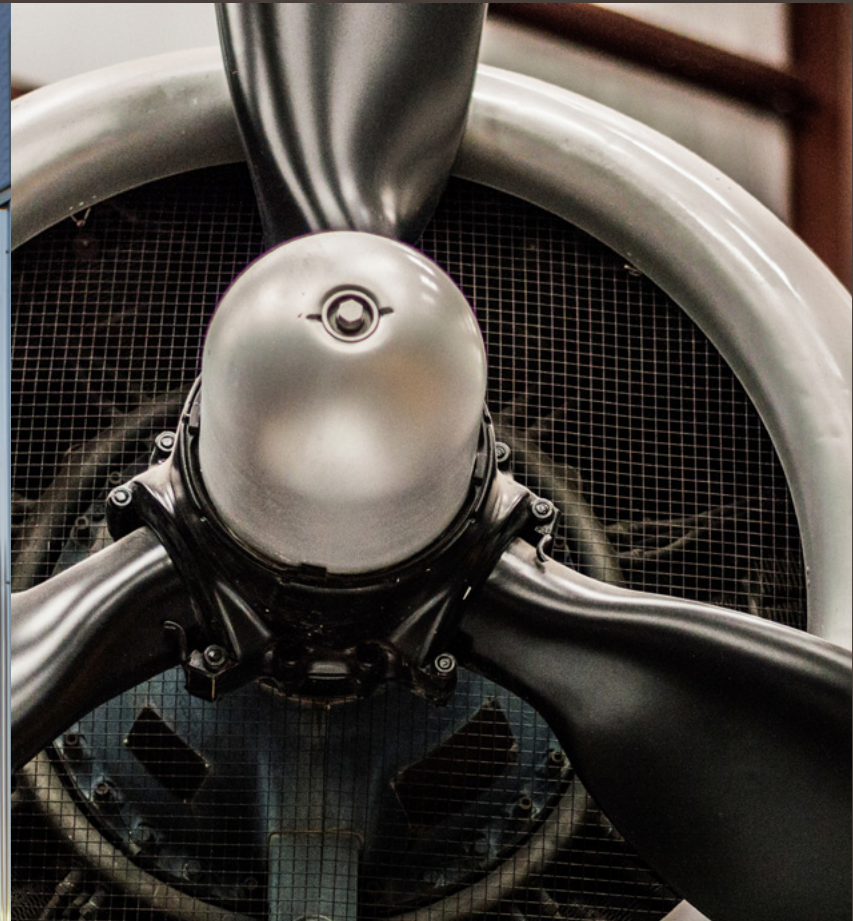




# ALUMINIUM

Architecture is another field in which aluminum performs brilliantly: its specific strength, resistance to corrosion and versatile surface make it the ideal material both for structures and cladding.

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+ Aerospace and automotive industry have greatly enjoyed aluminum alloys and their properties, including the capability of being bonded and not just welded or riveted.

# Our Story

In its **50** years of history, Ossida has serviced countless clients belonging to the fields of construction, architecture and furniture. We retain the pride and commitment of a family owned company, together with the managerial style of a structured corporation.

## Our facts

**12.000 sqm** of covered surface

**2** production departments, with a total amount of

**83** tanks **70** workers **6** tanks for the anodic

oxidation, total amount: **56.000** Ampère;

Chemical brightening up to **4400** mm in length.

## Environmental care:

Qualanod Certification  
Iso 14001 Certification

# What We can do

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**Cleaning  
Brightening process  
Anodic Oxidation  
Quality control  
Packaging**



What  
We can  
do

### Cleaning

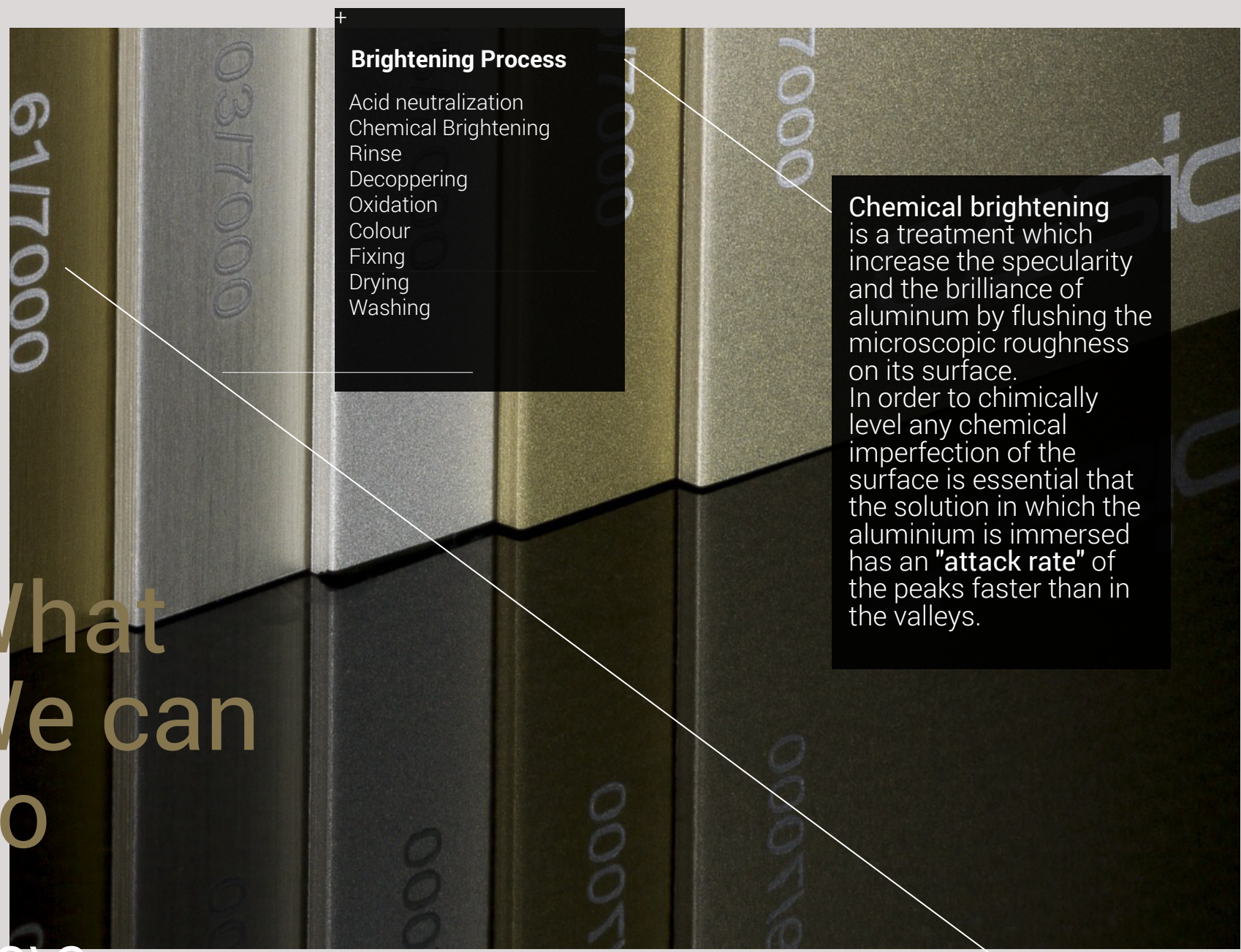
8000mm two-pallet  
automatic polishing  
machine;  
5000mm two-pallet  
automatic polishing  
machine;  
Glazing machine with 12  
wire brushes;  
Glazing machine with 6  
wire brushes.

The amazing surface  
characteristics that  
aluminum can achieve have  
created great expectations  
when it comes to finishing it.  
Mechanical cleaning and  
polishing is the following  
step, necessary once the  
chemical brightening is not  
enough and it requires up-  
to-date machinery and great  
expertise.



# What We can do

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## Brightening Process

- Acid neutralization
- Chemical Brightening
- Rinse
- Decoppering
- Oxidation
- Colour
- Fixing
- Drying
- Washing

**Chemical brightening** is a treatment which increase the specularity and the brilliance of aluminum by flushing the microscopic roughness on its surface. In order to chimically level any chemical imperfection of the surface is essential that the solution in which the aluminium is immersed has an **"attack rate"** of the peaks faster than in the valleys.



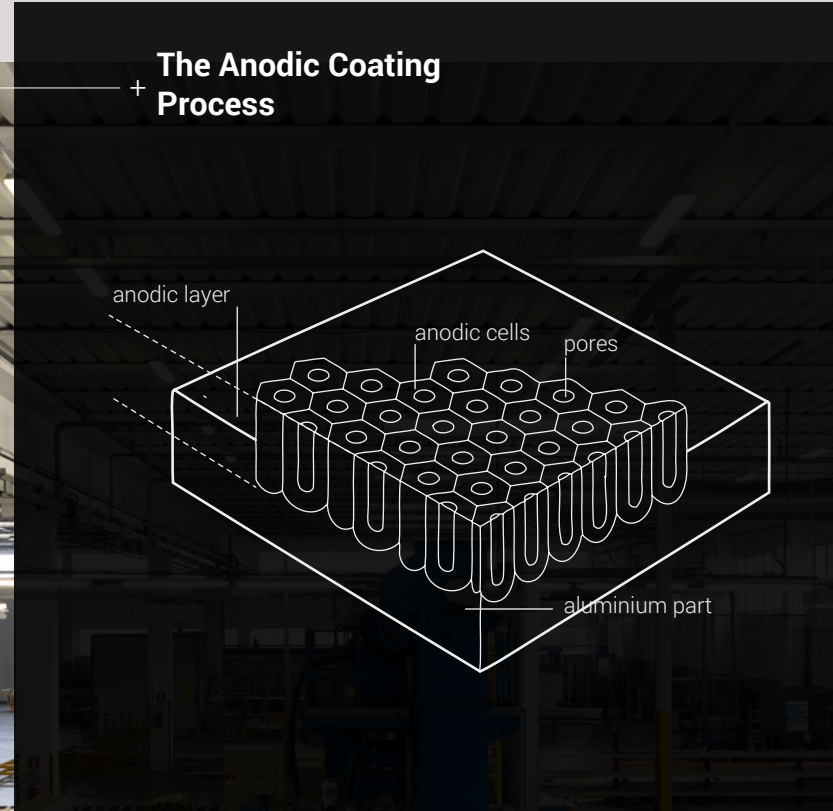
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**Anodic Oxidation**

- Acid Neutralization
- Degreasing
- Chemical Glazing
- Sulfuric Acid Anodizing
- Alkaline Neutralization
- Inorganic Dyeing
- Sealing
- Washing

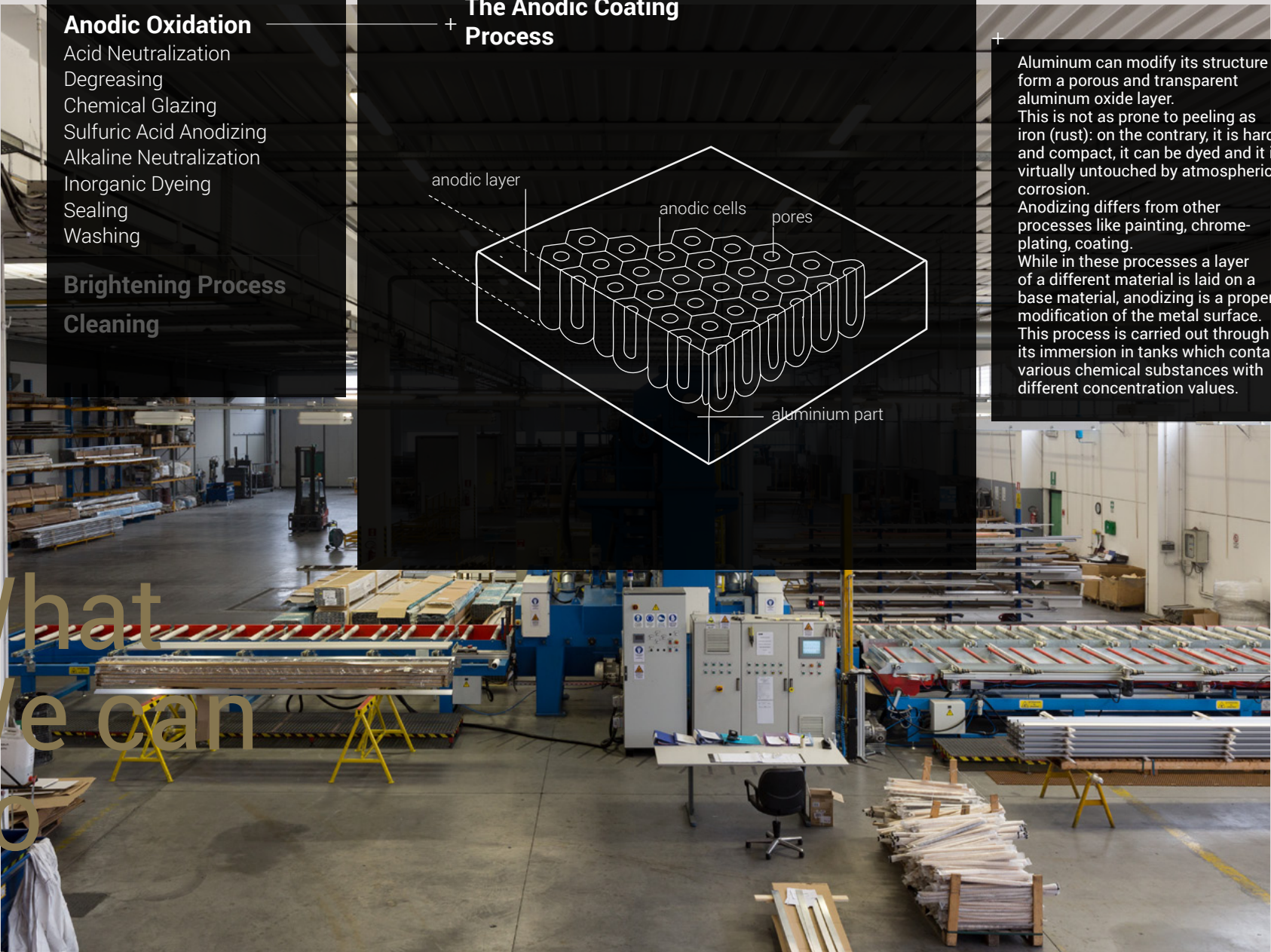
**Brightening Process**

**Cleaning**



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Aluminum can modify its structure to form a porous and transparent aluminum oxide layer. This is not as prone to peeling as iron (rust): on the contrary, it is hard and compact, it can be dyed and it is virtually untouched by atmospheric corrosion. Anodizing differs from other processes like painting, chrome-plating, coating. While in these processes a layer of a different material is laid on a base material, anodizing is a proper modification of the metal surface. This process is carried out through its immersion in tanks which contain various chemical substances with different concentration values.

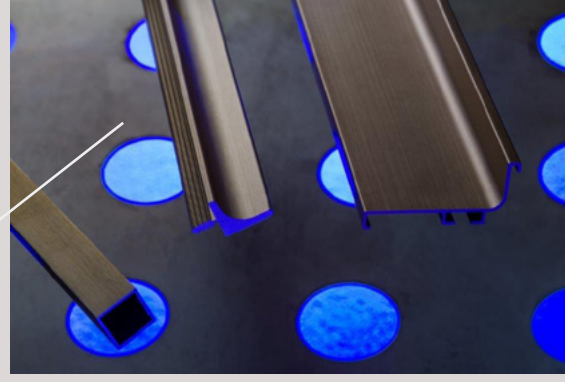


What  
We can  
do



What  
We can  
do

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# Why Work with us

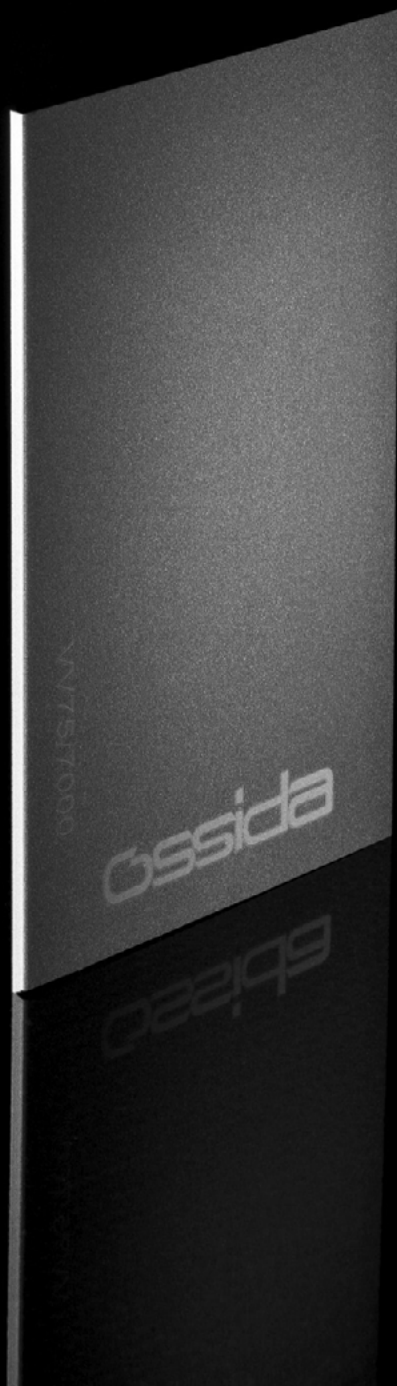
Prompt response

Environmental  
sensitivity

Sophisticated  
equipment and  
machinery

Vasted array  
of finished,  
unmatched by  
competitor





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